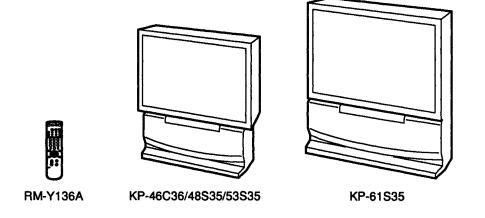
SERVICE MANUAL

RA-2 CHASSIS

MODEL	COMMANDER DEST.	CHASSIS NO.	<u>MODEL</u>	COMMANDER	DEST. CHASSIS NO.
KP-46C36	RM-Y136A US	SCC-K90C-A			
KP-48S35		SCC-K90B-A SCC-N22A-A			
KP-53S35		SCC-K90A-A SCC-N22B-A			
KP-61S35	RM-Y136A US	SCC-K90D-A			







COLOR REAR VIDEO PROJECTOR SONY.

※ Please file according to model size.



48

53

3 6

61

SPECIFICATIONS

Projection system 3 picture tubes, 3 lenses,

horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and

liquid cooling system

Projection lenses High performance, largediameter hybrid lens F1.1

Screen size (measured diagonally)

KP-46C36 46 inches KP-48S35 48 inches KP-53S35 53 inches KP-61S35 61 inches

Television system American TV standards

Channel coverage VHF: 2-13 / UHF: 14-69 /

CATV: 1 - 125

Antenna

75 ohm external antenna terminal for VHF/UHF

inputs/output

VIDEO IN 1

S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal)

75 ohms

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

VIDEO IN 2 (for KP-48S35/53S35/

61535)

VIDEO IN 3 (for KP-46C36 only)

VIDEO (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms

MONITOR OUT

VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync

negative

AUDIO (phono jacks): 500 mVrms

(100% modulation), Impedance: 10 kilohms

AUDIO OUT (phono jacks): 500 mVrms

mVrms (100% modulation) Impedance: 5 kilohms

Speaker

Full range speaker 100 mm (3.9

inches) diameter

Speaker output 10 W x 2

Power requirement

120 V, 60 Hz

Power consumption

165 W

Standby mode: 3 W

	Dimensions(W/H/D)	Mass
KP-46C36	1,066 × 1,306 × 563 mm (42 × 51 ¹ / ₂ × 22 ¹ / ₄ inches)	65 kg (143 lbs 5 oz)
KP-48S35	1,106 × 1,337 × 571 mm (43 ⁵ /s × 52 ⁵ /s × 22 ¹ /2 inches)	67 kg (147 lbs 11 oz)
KP-53S35	1,218 × 1,413 × 614 mm (48 × 55 ⁵ /8 × 24 ¹ /4 inches)	69 kg (152 lbs 1 oz)
KP-61S35	1,338 × 1,506 × 642 mm (52 ³ / ₄ × 59 ³ / ₈ × 25 ³ / ₈ inches)	122 kg (268 lbs 15 oz)

Supplied accessories

Remote control RM-Y136A (1) Size AA (R6) battery (2)

Optional accessories

U/V mixer EAC-66

Connecting cables RK-74A, VMC-810S/

820S, YC-15V/30V, VMC-720M High-contrast protective screen SCN-46X1 (For KP-46C36)

SCN-48X2 (For KP-48535) SCN-53X2 (For KP-53S35) SCN-61X2 (For KP-61S35)

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!! COMPONENTS IDENTIFIED BY SHADING AND MARK riangle On the SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION, REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNÈCTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cords for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
 Check leakage as described below.

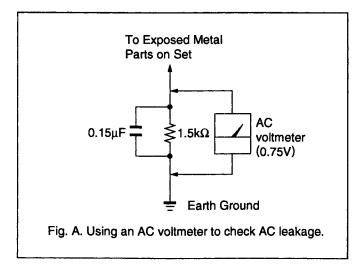
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



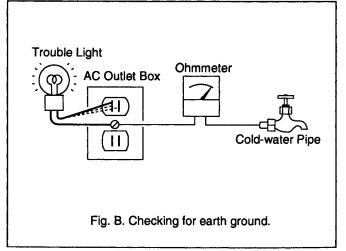


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SECTION 1 GENERAL

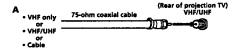
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

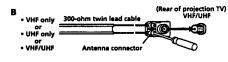
Step 2: Hookup

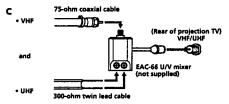
Although you can use either an indoor or outdoor antenna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.





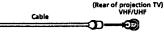


Notes

- Most VHF/UHF combination antennas have a signal splitter.
 Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

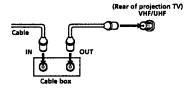
Connecting an antenna/cable TV system without a VCR

To cable or antenna

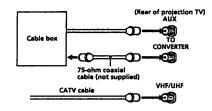


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable



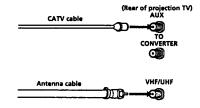
Pay cable TV systems use scrambled or encoded signals requiring a cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

 You cannot watch the signal through an AUX connector as a window picture.

To cable and antenna



Note

 Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction manual.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

To a conventional VCR

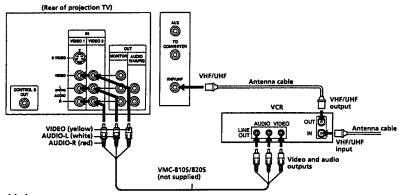
Notes

- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.
- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/2/3 IN on the projection TV.

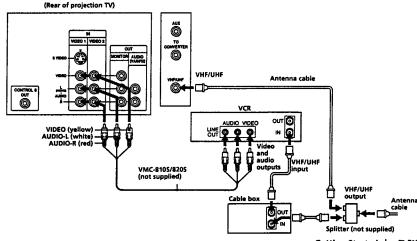
After making these connections, you will be able to do the following:

- · View the playback of video tapes
- Record one TV program while viewing another program
- · Watch two TV programs at once using PIP

Without a cable box



With a cable box

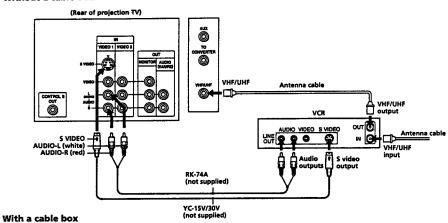


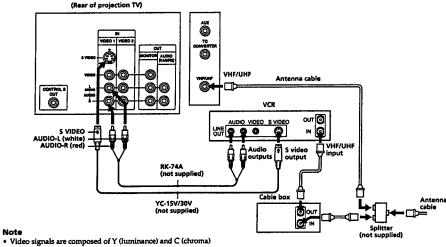
To an S video equipped VCR

If your VCR has an S VIDEO output connector, make the following connections.

Whenever you connect the cable to the S VIDEO input connector, the projection TV automatically receives S video signals.

Without a cable box





signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

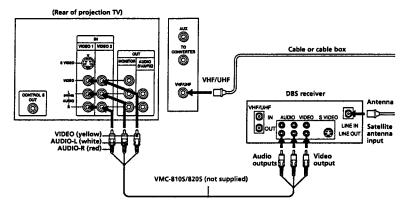
8-EN **Getting Started**

Connecting a DBS receiver

For details on connection, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

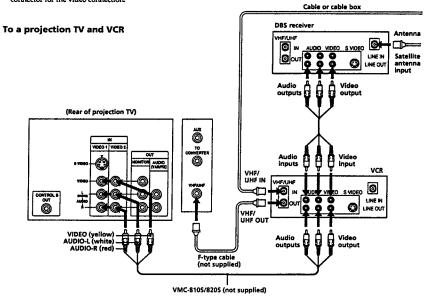
To a projection TV

· For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.



Note

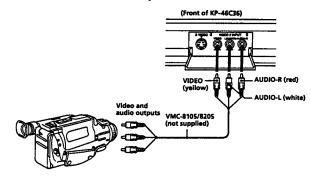
 You can use the S VIDEO connector or the composite video connector for the video connection.



Connecting a camcorder

■ KP-46C36 only

Use this connection to view a camcorder picture.

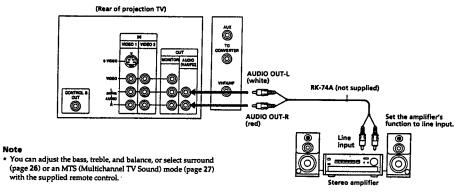


Note

 To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (MONO) of VIDEO 2 INPUT on the projection TV.

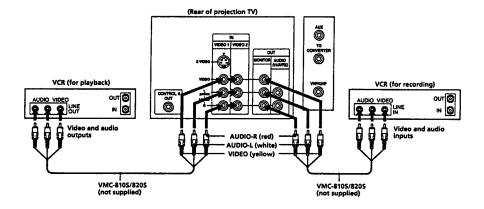
Connecting an audio system

When connecting audio equipment, see page 28 for more information.



Connecting two VCRs for tape editing using MONITOR OUT

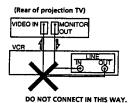
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video connector to connect a VCR for recording.
- For models KP-46C36, you can connect the audio and video outputs of the VCR to VIDEO 3 IN jacks instead of the VIDEO 2 IN jacks.

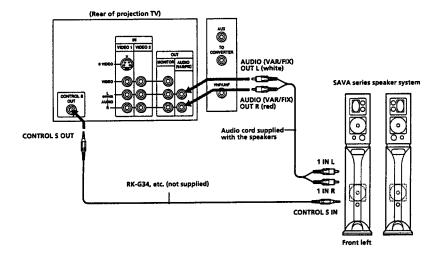
 When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



Connecting a Sony SAVA series speaker system

If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR/FIX) OUT jacks on the rear of the projection TV with the audio cable supplied with the speakers. You can take advantage of the speakers' Dolby Pro Logic* surround system and super woofer mode, and control them with the supplied remote control. When connecting a Sony SAVA series speaker system, see page 27 for more information.

 Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol IXI and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



Step 3: Setting up the remote control

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.





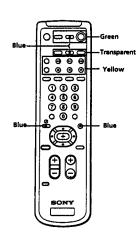
Notes

- Under normal conditions, batteries will last up to six months.
 If the remote control does not operate properly or the indicators of the buttons on the remote control do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote control for a long period of time.
- Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
- Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

Getting to know buttons on the remote control

Names of buttons on the remote control are indicated in different colors to represent the available functions.

Button color



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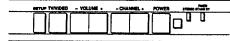
Step 4: Setting up the projection TV automatically

(AUTO SET UP)

You can set up your projection TV easily by using the AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 16), "Setting cable TV on or off" (page 17), "Presetting channels" (page 18) and "Changing the menu language" (page 18).

If the projection TV is set to a video input, you cannot perform AUTO SET UP. Press TV/VIDEO so that a channel number appears.

(Front of projection TV)



Before you start using AUTO SET UP, be sure to connect the antenna or cable to the projection TV (see page 6).

1 Press POWER to turn the projection TV on.



2 Press SETUP on the front of the projection

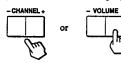
AUTO SET UP screen appears.





3 Press CHANNEL +/~ or VOLUME + to select the on-screen menu language.

If you prefer Spanish or French to English, you can change the on-screen menu language.



All of the menus will be set to the factory preset condition in the selected language.

4 Press VOLUME - to start AUTO SET UP.





5 Press CHANNEL + to preset channels.





"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CABLE is set to ON automatically.

CONTINUE TO YES : CH-

To exit AUTO PROGRAM

Press any button.

6 Adjust convergence. (1) Press CHANNEL +.

The CONVERGENCE adjustment screen appears.



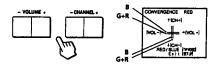


(2) Press TV/VIDEO to select RED or BLUE.





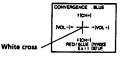
(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL

To move vertical line right/left, press VOLUME +/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



· Using the AUX connector, press TV (black button) first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow the steps 2 to 6 above to perform

To preview the main functions (DEMO)

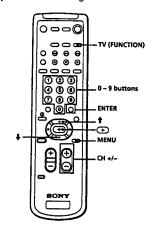
Press TV/VIDEO on the projection TV in step 4. The functions and menus are displayed one by one.

To exit DEMO

Press any button.

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



Press TV (FUNCTION).



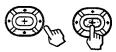
2 Press MENU.

The main menu appears.

MENU



3 Press + or + to select ♠, and press ⊕. The SET UP menu appears.





4 Press + or + to select CHANNEL ERASE/ADD, and press (+).

The CHANNEL ERASE/ADD menu appears.







5 Erase and/or add channels:

To erase an unwanted channel

- Make sure the cursor (▶) is beside ERASE.
- (2) Press CH +/- or the 0 9 buttons to select the channel you want to erase, and press ENTER.



(3) Press .

The "-" indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- (1) Press ♦ or ♦ to move the cursor (▶) to ADD.
- (2) Press the 0 9 buttons to select the channel you want to add, and press ENTER.

Selected channel numbe





(3) Press (1).

The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



- 6 To erase and/or add other channels, repeat
- 7 Press MENU to return to the original screen.



Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and
- Erasing and adding channels is also available for the AUX input.

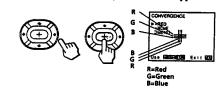
Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to adjust it manually.

- 1 Press MENU.
- 2 Press + or + to select 🖶 , and press 🖜 .
- 3 Press + or + to select CONVERGENCE, and

The CONVERGENCE adjustment screen appears.

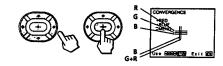


4 Press +, +, +, or + to move the cursor (►) to the symbol showing the line you want to adjust, and press .





- +RED: Red vertical and horizontal line (left/right/up/ down adjustment)
- +BLUE: Blue vertical and horizontal line (left/right/up/ down adjustment)
- 5 Press +, +, +, or + to move the line until it converges with the center green line, and press (+).



To move	Press	
Up	•	
Down	+	
Right	•	
Left	+	

- Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON (the factory setting). If not. set CABLE to OFF.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select ♠, and press ⊕.
- 3 Set CABLE to ON or OFF:
 - (1) Press or to move the cursor (▶) to CABLE, and press \oplus .
 - (2) Press ♦ or ♦ to select ON or OFF, and press ⊕.







4 Press MENU to return to the original screen.

 If CABLE appears in gray, the projection TV is set to a video input and you cannot select CABLE. Press TV (black button) so that a channel number appears.

You can preset TV channels easily by using the AUTO PROGRAM feature.

You do not have to do this procedure if you perform AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕀.
- 3 Press + or + to select AUTO PROGRAM, and press \oplus .







"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

To exit AUTO PROGRAM Press any button.

Notes

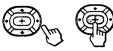
- If the AUTO PROGRAM menu appears in gray, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black) button so that a channel number
- · Presetting channels is also available for the AUX input.

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

You do not have to do this procedure if you select the language during AUTO SET UP (page 14). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to select ♠, and press ⊕.
- 3 Press + or + to select LANGUAGE, and press





4 Press + or + to select your favorite language, "ENGLISH", "ESPAÑOL," or "FRANÇAIS" and press .





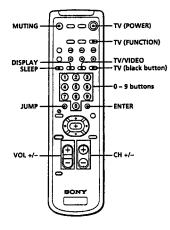


5 Press MENU to return to the original screen.

· Certain parts of the Spanish or French menus remain in English.

Operations

Watching the TV



1 Press TV (POWER) to turn on the projection

The TIMER/STANDBY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press TV (black button) so that a channel number appears.

2 Press TV (FUNCTION).



Once you press TV (FUNCTION), the projection TV function is set unless another function button is pressed.

3 Select the channel you want: To select a channel directly

Press the 0 - 9 buttons, and press ENTER. For example, to select channel 10, press 1, 0 and ENTER.



To scan through channels

Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

4 Press VOL +/- to adjust the volume.





Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches the channel back to the one you selected last.

. You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen. MUTING

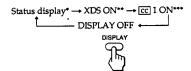


To restore the sound, press MUTING again, or press VOL+. Operations | 19-EN

Displaying on-screen information

Press DISPLAY repeatedly until the desired display appears.

Each time you press DISPLAY, the display changes as follows:



- Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.
- ** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the DISPLAY button, this information will be displayed on the screen if the broadcaster offers this service.
- *** Some programs are broadcast with Caption Vision. When you select Caption Vision with the DISPLAY button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 34 for selecting Caption Vision.)

To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press SLEEP repeatedly until the time (minutes) you want appears.

Each time you press SLEEP, the time-changes as follows:

To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn off the projection

20-EN | Operations

Watching a video input picture

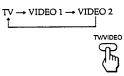
Press TV/VIDEO repeatedly until the desired video input appears.

Each time you press TV/VIDEO, the display changes as follows:

■ KP-41T35/46C36 only

 $\begin{array}{c} \text{TV} \rightarrow \text{VIDEO 1} \rightarrow \text{VIDEO 2} \rightarrow \text{VIDEO 3} \\ \uparrow \\ \hline \end{array}$

■ KP-48535/53535/61535 only



To return to the TV picture, press TV (black button) so that a channel number appears.

Changing the VHF/UHF input to the AUX input

Press TV (black button).

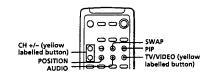
"AUX" appears beside the channel number.



Pressing TV (black button) again switches back to the VHF/UHF input. $\label{eq:vhf} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll$

Watching two programs at one time — PIP

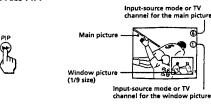
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.



Use the yellow labelled buttons for PIP operations.

Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture. Input-source mode or TV

Window picture

(1/16 size)

Input-source mode or TV
channel for the window picture

To remove the window picture, press PIP again.

Note

 The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV," "VIDEO 1," "VIDEO 2," and "VIDEO 3 (for KP-46C36 only)" appear in sequence.





A window picture will appear in the same input mode as the last time you used PIP.

Note

 If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The $\ J$ display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.





The sound of the window picture is received.

To restore the main picture sound, press AUDIO again. The 💰 display moves to the main picture channel number.

Changing TV channels in the window picture

Press CH +/- (yellow labelled button).





Changing the position of the window picture

Press POSITION.

Each time you press POSITION, the window picture will move counterclockwise on the screen.



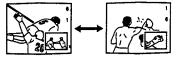


Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

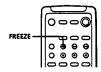




 The channels being received through the AUX connector cannot be displayed as a window picture.

Freezing the picture (FREEZE)

The FREEZE feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number. The frozen picture changes as follows depending on whether the PIP function is used or not.



Press FREEZE.



When the PIP function is not being used



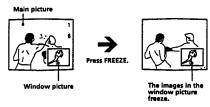




The frozen picture appears in the window picture.

To remove the frozen window picture, press FREEZE again.

When the PIP function is being used

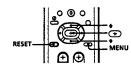


To cancel the frozen window picture, press FREEZE again.

Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the picture to suit your taste.

You can adjust the picture of video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select (III), and press (III).







- 3 Select the item you want to adjust. For example:
 - (1) To adjust the brightness, press ♦ or ♦ to move the cursor (▶) to BRIGHTNESS.





(2) Press .





Adjust the selected item:

(1) Press ♦, ♦, ₹, or \$ to adjust the item.





(2) Press (+).

The new setting appears in the VIDEO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press + or + to	Press + or + to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHTNES	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

To restore the factory settings

Press RESET after displaying and selecting the VIDEO

All of the settings are restored to the factory settings.

Adjusting the color temperature (TRINITONE)

The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



- 1 Press MENU.
- 2 Press + or + to select @ and press .
- 3 Press + or + to select TRINITONE and press







4 Press + or + to select NTSC STD, MEDIUM, or HIGH and press .







Choose	To
HIGH	a cool (bluish) white.
MEDIUM	a neutral white.
NTSC STD	a warm (reddish) white.

Selecting the video mode (VIDEO)

The video mode feature allows you to choose three different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

- 1 Press MENU.
- 2 Press + or + to select (III), and press (...).
- 3 Press + or + to select MODE, and press .
- 4 Press + or + to select STANDARD, MOVIE, or SPORTS mode, and press .







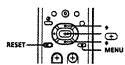
Choose	To
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a vivid, bright picture.

5 Press MENU to return to the original screen.

· The settings for these modes can be adjusted in the VIDEO

Adjusting the sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of the video input(s) as well.



- 1 Press MENU.
- 2 Press + or + to select 1, and press .







- 3 Select the item you want to adjust. For example:
 - (1) To adjust bass, press + or + to move the cursor (>) to BASS.





(2) Press .





- 4 Adjust the selected item:
 - (1) Press ♦, ♦, ♦, or ♦ to adjust the item.





(2) Press (1).

The new setting appears in the AUDIO menu.





For details on each item, see "Description of adjustable items" below.

- 5 To adjust other items, repeat steps 3 and 4.
- 6 Press MENU to return to the original screen.

Description of adjustable items

item	Press + or + to	Press + or + to	
TREBLE	Decrease the treble response.	Increase the treble response.	
BASS	Decrease the bass response.	Increase the bass response.	
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.	

To restore the factory settings

Press RESET after displaying and selecting the AUDIO

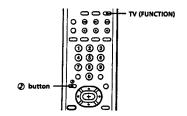
All of the settings are restored to the factory settings.

• When SPEAKER (page 27) is OFF and AUDIO OUT (page 28) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Using audio effect (SURROUND)

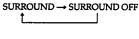
The audio effect (SURROUND) feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Audio effect is only effective for stereo programs.

Using the @ (audio effect) button



- 1 Press TV (FUNCTION).
- 2 Press Ø.

Each time you press the @ button, the display changes as follows:





Using the menu to set audio effect



- 1 Press MENU.
- 2 Press + or + to select →, and press ⊕.
- 3 Press + or + to select EFFECT, and press .







Press + or + to select the audio effect mode, and press 🕀.







5 Press MENU to return to the original screen.

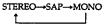
Selecting stereo or bilingual programs

(MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound



Press MTS repeatedly to select STEREO, SAP, or



Choose	То
STEREO	Listen to stereo sound. The STEREO indicator on the projection TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

Note

· Stereo and SAP sounds are subject to program sources.

To set MTS using the menu

- 1 Press MENU.
- 2 Press ♦ or ♦ to select ♪, and press ⊕.
- 3 Press ♦ or ♦ to select MTS, and press ⊕.
- 4 Press ♦ or ₹ to select STEREO, SAP, or MONO.
- 5 Press MENU to return to the original screen.

Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when. for example, you want to listen to the sound through a stereo system.

If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super woofer mode. After making the connections (page 12), set SPEAKER to SAVA SPEAKER, then adjust SURROUND MODE or SUPER WOOFER MODE.



- 1 Press MENU.
- 2 Press + or + to select →, and press ⊕.
- 3 Press + or + to select SPEAKER, and press







4 Press + or + to select ON, OFF, or SAVA SP, and press \oplus .







5 Press MENU to return to the original screen.

Choose	To
ÖN	Listen to the sound from the projection TV.
OFF	Turn off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.
SAVA SP	Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust volume, muting, surround modes, and super woofer mode with the remote control supplied with the projection TV.

To select surround sound or super woofer mode of the SAVA speaker system

After setting SPEAKER to SAVA SP, follow the procedure below.

Press + or + to select SURROUND MODE or SUPER WOOFER MODE, and press . For details on each option, refer to the operating instructions of the speaker system.

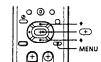




. This feature is only for Sony SAVA speaker system with an operation capability for KP-46C36, KP-48S35, KP-53S35, and KP-61S35.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press + or * to select J, and press ⊕.
- 3 Press + or → to select AUDIO OUT, and press







4 Press * or * to select VARIABLE or FIXED, and press (+).







VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

5 Press MENU to return to the original screen.

• If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

Daylight saving start

· After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (right column) automatically moves one hour ahead.

Daylight saving end

· After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.



- 1 Press MENU.
- 2 Press + or + to select @, and press .
- Press + or ♥ to select DAYLIGHT SAVING, and press (+).







4 Press + or + to select YES or NO, and press







Choose	То
YES	Set for daylight saving start.
NO	Set for daylight saving end.

5 Press MENU to return to the original screen.

Setting the clock (CURRENT TIME SET)

Setting the clock enables you to turn the projection TV on and off with the timer. Make sure to set daylight saving time first.



- 1 Press MENU.
- Press ♦ or ♦ to select ⊕, and press ⊕.
- 3 Press * or * to select CURRENT TIME SET, and press (+).







4 Make sure the cursor (▶) is to the left of "--:-- AM," and press (+).





5 Set the current day of the week and time.

(1) Press ★ or ♥ to set the day of the week, and press







(2) Set the hour and minutes in the same way as in step (1). When you press - after setting the minutes, the clock starts.





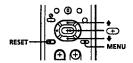


6 Press MENU to return to the original screen.

Setting the timer to turn the projection TV on and off

(ON/OFF TIMER)

You can set the projection TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first (page 29).



- 1 Press MENU.
- 2 Press + or + to select ②, and press ①.
- 3 Press + or + to select ON/OFF TIMER, and press (+).







- 4 Press
 and enter the ON/OFF TIMER
 - (1) Press ♦ or ♦ to set the day(s), and press ⊕.

Each time you press ◆ or ◆, the days cycle as follows:

EVERY SUN-SAT→EVERY MON-FRI→ SUNDAY--...-SATURDAY--EVERY SUNDAY→...→EVERY SATURDAY









(2) Press or to set the time (hour then minutes) that you want to turn on the projection TV, and press 🕦.





(3) Press • or • to set the time duration, and press

Each time you press +, the time duration increases by one hour up to a maximum of six













The TIMER indicator on the projection TV lights up.

- 5 To set the other program, press 🕁, and repeat step 4.
- 6 Press MENU to return to the original screen.

One minute before the projection TV turns off, the message "TV will turn off soon." is displayed on the screen.

To cancel the timer

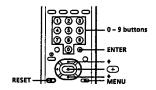
In step 3 or 4, press RESET.

· If you unplug the projection TV or a power interruption occurs, the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names

(CHANNEL CAPTION)

You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🖜.







3 Press + or + to select CHANNEL CAPTION, and press (+).







4 Press
and press + or + to select the channel that you want to caption, and press 🕀.









- 5 Enter the letters (up to four) to caption the
 - (1) Press ♦ or ♦ to select the first letter.

Each time you press ★ or ♥, the letter changes as follows:

0...9 ← A...Z ← &,/,_(blank space)



(2) Press (+).





- (3) Repeat steps (1) and (2) to select the remaining letters, and press .
- 6 Repeat steps 4 and 5 to caption other
- 7 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

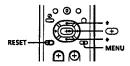
To erase a caption

In step 5, press RESET.

- If the CHANNEL CAPTION menu appears in gray, the projection TV is set to a video input, and you cannot select CHANNEL CAPTION. Press TV (black button) so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . The channel caption feature is not available for the AUX input.

Blocking out a channel (CHANNEL BLOCK)

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🕁.
- 3 Press + or + to select CHANNEL BLOCK, and press 🛨.







4 Press + or + to select program 1 or 2, and press (+).





5 Press + or + to select the channel which you want to block out, and press (+).





6 Press MENU to return to the original screen.

When you select the blocked channel, the message "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting In step 4 or 5, press RESET.

Note

- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.
- 32-EN | Operations

Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your projection TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0 - 9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

Setting your favorite channels



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press 🖜.
- 3 Press + or + to select FAVORITE CHANNEL, and press \oplus .







4 Press ⊕ and press + or + to select AUTO or MANUAL, and press (+).







If you select AUTO, skip steps 5 and 6. The last five channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press + or + to select a favorite channel number, and press (+).







6 Press + or + to select the channel that you want to set as your favorite channel, and press 🕦.







7 Press MENU to return to the original screen.

- If the FAVORITE CHANNEL menu appears in gray, the projection TV is set to a video input and you cannot select FAVORITE CHANNEL
- · If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

Selecting your favorite channel



The FAVORITE CHANNEL menu appears.





2 Press + or + to select the favorite channel you want to watch, and press . The selected channel appears on the screen.



To cancel the FAVORITE CHANNEL menu Press ♦ or ♥ to select "Exit," and press ⊕.

Setting video labels (VIDEO LABEL)

The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as



- 1 Press MENU.
- 2 Press + or + to select 🖶, and press ↔.
- 3 Press + or + to select VIDEO LABEL, and press 🕀.







4 Press + or + to select the input mode you want to label, and press .







Press + or + to select the label, and press







Each time you press ♦ or ♦, the label changes as

VIDEO 1 (for all models)

VIDEO 1
$$\leftarrow$$
 VHS \leftrightarrow 8 mm \leftrightarrow BETA

 \downarrow
DBS \leftrightarrow DVD \leftrightarrow 5 VIDEO \leftrightarrow LD

VIDEO 2 (for KP-46C36 only)

VIDEO 2 \leftarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

 \downarrow
DBS \leftrightarrow DVD \leftrightarrow 5 VIDEO \leftrightarrow LD

VIDEO 2 (for KP-48S35/53S35/61S35 only)

VIDEO 2 \leftarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

 \downarrow
DBS \leftrightarrow DVD \leftrightarrow LD

VIDEO 3 (for KP-46C36 only)

VIDEO 3 \leftrightarrow VHS \leftrightarrow 8 mm \leftrightarrow BETA

 \downarrow
DBS \leftrightarrow DVD \leftrightarrow LD

 \rightarrow
DBS \leftrightarrow DVD \leftrightarrow LD

6 Repeat steps 4 and 5 to label other input modes.

• If more than 90 seconds elapse before you press another button, the menu disappears automatically



Some programs are broadcast with Caption Vision To display Caption Vision, select either CC1, CC2, CC3, CC4. TEXT1. TEXT2. TEXT3, or TEXT4 from the menu CC1, CC2, CC3, or CC4 shows you on-screen version of the dialogue or sound effects of a program (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole screen. It is not usually related to the program



- 1 Press MENU.
- 2 Press + or + to select □ and press ⊕.







3 Press + or + to select the caption type, and press 🕀







4 Press MENU to return to the original screen.

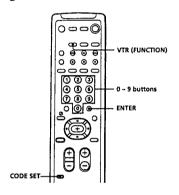
To display Caption Vision Press DISPLAY (See page 20 for details)

- · Poor reception of TV programs can cause errors in Caption Vision and XDS
- Captions may appear with a white box or other errors instead of a certain word.
- . XDS, Caption Vision, and the status display cannot be used at the same time
- · For details on XDS, see page 20

Operating video equipment

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the CODE SET, VTR (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart on page 35-36), then press ENTER.

For example, to operate a Sony 8 mm VCR, press CODE SET, VTR (FUNCTION), 3, 0, 2, and



VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa Andre Dimension	338
Audio Dynamic	314, 337
Beil & Howell (M Wards) Brocsonic	330, 343
Canon	319 309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314,
,,	336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330,
	335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311,
	312, 313
Realistic	309, 330, 328, 335, 324,
_	338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323,
C1	324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327
Sylvarua	308, 309, 338
Symphonic Tashiro	338
Tashiro	332
Tatung Tool	314, 336, 337
Teac Tooks as	314, 336, 338, 337
Technics Tochiha	309, 308 312, 311
Toshiba Wards	312,311
yvaros Yamaha	327, 328, 335, 331, 332 330, 314, 336, 337
	331
Zenith	331

MDP manufacturer code numbers

Manufacturer	Code number
Sony	701
Kenwood	707
Magnavox	703
Maranz	702
Mitsubishi	702
Panasonic	704
Philips	703
Pioneer	702
RCA	702
Sanyo	70 6
Sharp	70\$
Yamaha	703

Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. This is because your equipment may use a code that is not included with this remote control. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

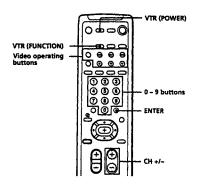
VHS VCR 301 (preset code for the supplied remote control)

8 mm VCR 302

Beta, ED Beta VCRs 303

 Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code number may revert to the factory setting and must be reset.

Operating video equipment



Use the video operating buttons on the remote control to operate the video equipment. Press VTR (FUNCTION) before operating the video equipment.

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0 - 9 buttons.
To change channels	Press CH +/
To record	Press ➤ while pressing ●. First release ►, then release ●.
To play	Press ►.
To stop	Press 2 .
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press II. To resume normal playback, press again
To search the picture forward or backward	Press ▶► or ◀◀ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR,

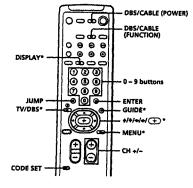
Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press ►.
To stop	Press M.
To pause	Press II. To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ▶▶ or ◄◄ during playback. To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/

Note

 If the video equipment does not have a certain function, the corresponding button on this remote control will not operate.

Operating a cable box or DBS receiver

You can program the supplied remote control to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote control.



- The TV/DBS, GUIDE, DISPLAY, */*/*/ (**), and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0 – 9 buttons to enter the manufacturer's code number (see the chart on the right column), then press ENTER. For example, to program your remote control to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.



3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0 - 9 and ENTER buttons.

Note

 If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will not operate.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

 First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number		
Hamlin/Regal	222, 223, 224, 225, 226		
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218		
Oak	227, 228, 229		
Panasonic	219, 220, 221		
Pioneer	214, 215		
Scientific Atlanta	209, 210, 211		
Tocom	216, 217		
Zenith	212, 213		

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote control)
RCA	802

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you
 previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote control and you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- → Operate with the buttons on the projection TV.
- ➡ Insert the batteries in the remote control with the correct polarity.
- Replace the batteries with new ones if they are weak.
- → Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3 (for KP-41735 only).
- → Try another channel. It could be station trouble.
 → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Poor or no picture (screen lit), good sound

- → Adjust PICTURE in the VIDEO menu. (page 23)
 → Adjust BRIGHTNESS in the VIDEO menu.
- (page 23) → Adjust convergence. (page 16)
- → Check antenna/cable connections. (page 6)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition.
- (page 14)
 → Remove objects from the front of the projection TV.

Good picture, no sound

- → Press MUTING so that "MUTING" disappears
- from the screen. (page 19)

 Check the MTS setting in the AUDIO menu. (page 27)
- → Make sure SPEAKER is set to ON in the AUDIO menu. (page 27)
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

No color

- → Adjust the COLOR in the VIDEO menu. (page 23)
- Confirm that black and white program is not being broadcast.
- → Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 17)
- → Check the antenna/cable connections. (page 6)
- Make sure the channel is broadcasting programs.
- → Press TV (black button) to change the input mode. (page 20)

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs, and hairdryers.

Double images or ghosts

Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- → If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO
- → Check the CABLE setting in the SET UP menu. (page 17)

Cannot receive upper channels (UHF) when using an antenna

- → Make sure CABLE is OFF in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Cannot receive any channels when using

- → Make sure CABLE is ON in the SET UP menu. (page 17)
- → Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Remote control does not operate

- Batteries could be weak. Replace the batteries. (page 13)
- → Make sure the projection TV's power cord is connected securely to the wall outlet.
- Press TV (FUNCTION) when operating your projection TV.
- → Are fluorescent lights too close to the projection TV? Move them at least 3-4 feet away from the projection TV.

Cannot gain enough volume when using a cable box

→ Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

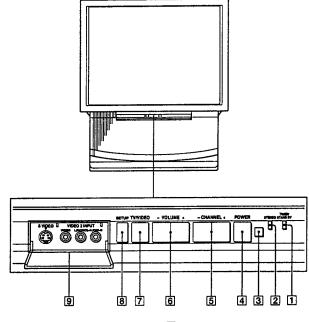
The projection TV needs to be cleaned

Clean the projection TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Index to parts and controls

This section briefly describes the buttons and controls on the projection TV and on the Remote control. For more information, refer to the pages next to each description.

Projection TV — Front



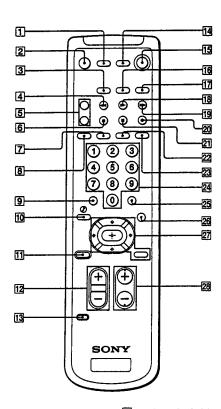
- 1 TIMER/STANDBY indicator (pages 19, 30)
- 2 STEREO indicator (page 27)
- 3 Remote sensor
- 4 POWER switch (page 14)
- [5] CHANNEL +/- buttons (page 14)

- 6 VOLUME +/- buttons (page 14)
- 7 TV/VIDEO button (page 14, 15)
- 8 SETUP button (page 14)
- S VIDEO/VIDEO 2 INPUT (VIDEO/AUDIO L(MONO)/R) jacks (for KP-46C36 only) (page 10)

40-EN

Additional Information

Remote control



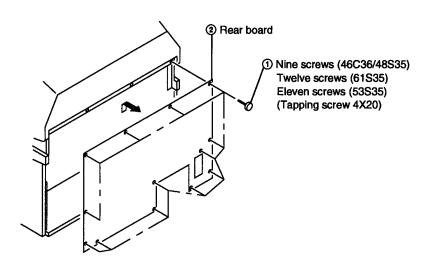
- 1 VTR (POWER) switch (page 36)
- 2 MUTING button (page 19)
- 3 VTR (FUNCTION) button (page 35)
- 4 FREEZE button (page 22)
- [5] TV/VTR CH +/- buttons (Yellow labelled button) (page 21)
- 6 POSITION button (page 22)
- 7 DISPLAY button (page 20)
- 8 SLEEP button (page 20)
- 9 JUMP button (page 19)
- 10 TV/DBS @ button (page 26, 37)
- 11 RESET button (page 23)
- 12 VOL (volume) +/- buttons (page 19)
- 13 CODE SET button (page 35)
- 14 DBS/CABLE (POWER) switch (page 37)
- 15 TV (POWER) switch (page 19)
- DBS/CABLE (FUNCTION) button (page 37)

- TV (FUNCTION) button (pages 15, 19)
- 18 SWAP button (page 22)
- 19 PIP button (page 21)
- 20 TV/VIDEO button (yellow labelled button) (page
- 21 AUDIO button (page 21)
- 22 TV/VIDEO button (page 20)
- 23 TV button (black button) (page 20)
- 24 0 9 buttons (page 16)
- 25 ENTER button (page 16)
- 26 MTS/GUIDE button (page 27, 37)
- 27 Menu operation buttons (page 15)
 - MENU button
 - **+/+/**+/+/ buttons
 - button
- 28 CH (channel) +/- buttons (pages 16, 19)

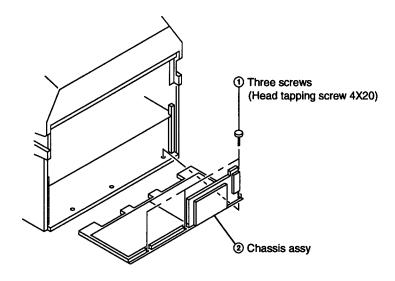
Additional Information | 41-EN

SECTION 2 DISASSEMBLY

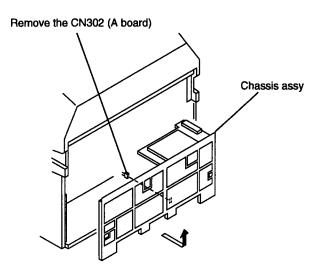
2-1. REAR BOARD REMOVAL



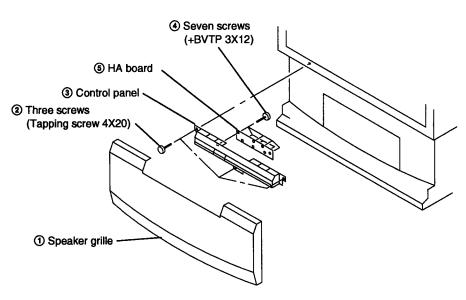
2-2. CHASSIS ASSY REMOVAL



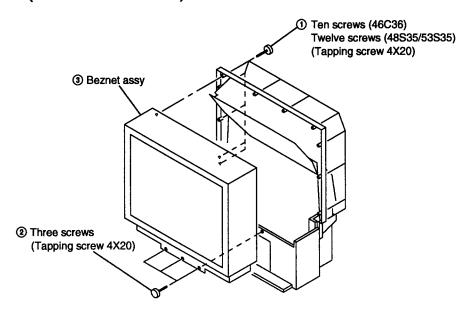
2-3. SERVICE POSITION



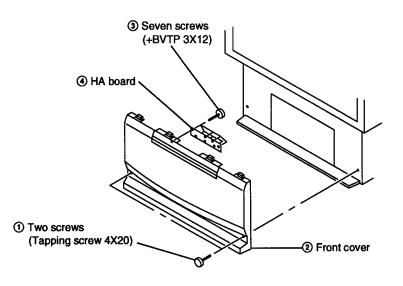
2-4-1. HA BOARD REMOVAL (KP-46C36)



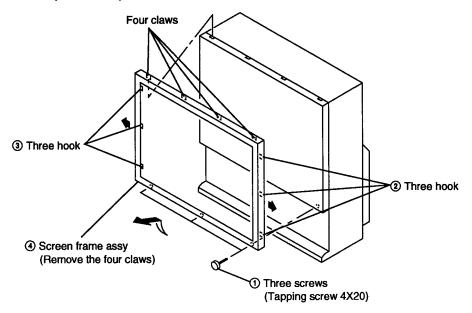
2-5-1. BEZNET ASSY REMOVAL (KP-46C36/48S35/53S35)



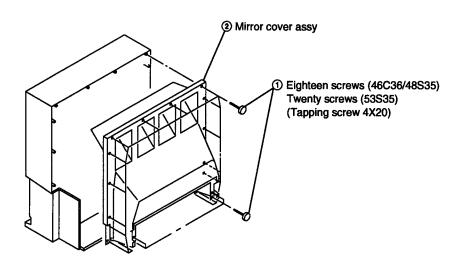
2-4-2. HA BOARD REMOVAL (KP-48S35/53S35/61S35)



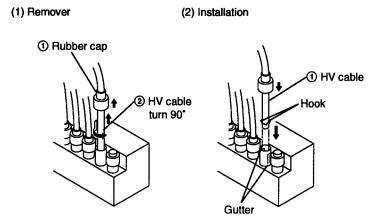
2-5-2. SCREEN FRAME ASSY REMOVAL (KP-61S35)



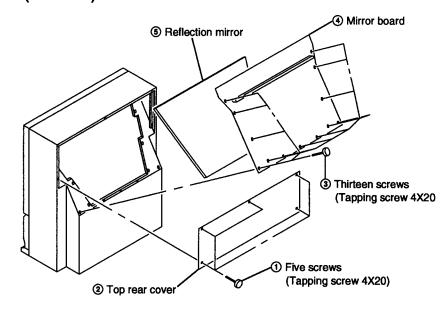
2-6-1. MIRROR COVER ASSY REMOVAL (KP-46C36/48S35/53S35)



2-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

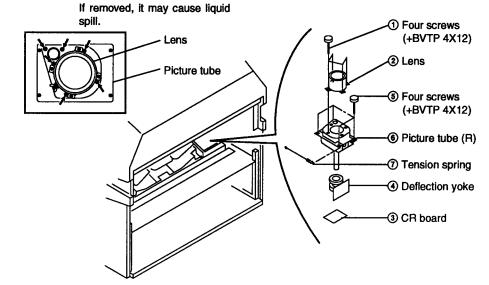


2-6-2. REFLECTION MIRROR REMOVAL (KP-61S35)



2-8. PICTURE TUBE REMOVAL

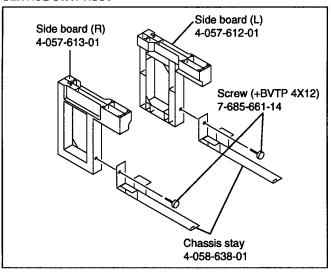
CAUTION: Removing the arrow-marked screws is strictly inhibited.



- 26 -

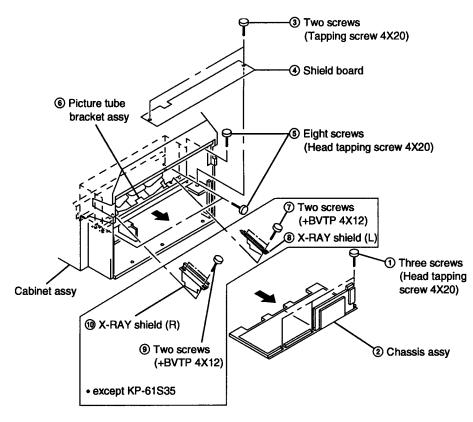
2-9-1. SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY.

SERVICE STAY ASSY



2-9-2. PICTURE TUBE BRACKET ASSY REMOVAL

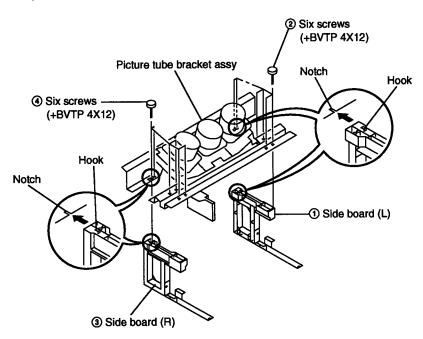
- Disassemble HA board and speaker cord.
- Disassemble all the harness from purse lock.



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet assy.
- 2) Remove ③ two screws (tapping screw 4X20) and remove ④ shield board.
- 3) Remove (a) eight screws (head tapping screw 4X20) and release (a) picture tube bracket assy from cabinet assy.
 - 4) Remove ⑦ two screws (+BVTP 4X12) and remove ⑧ X-RAY shield (L).
 - 5) Remove (a) two screws (+BVTP 4X12) and remove (b) X-RAY shield (R).

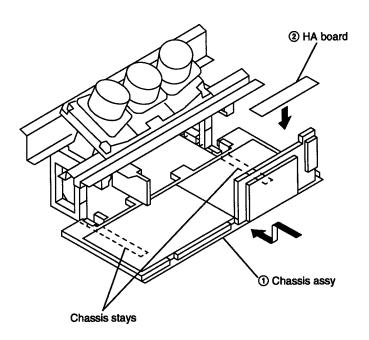
 except KP-61S35

2-9-3. SETTING OF SERVICE STAY ASSY. (KP-46C36/48S35/53S35)

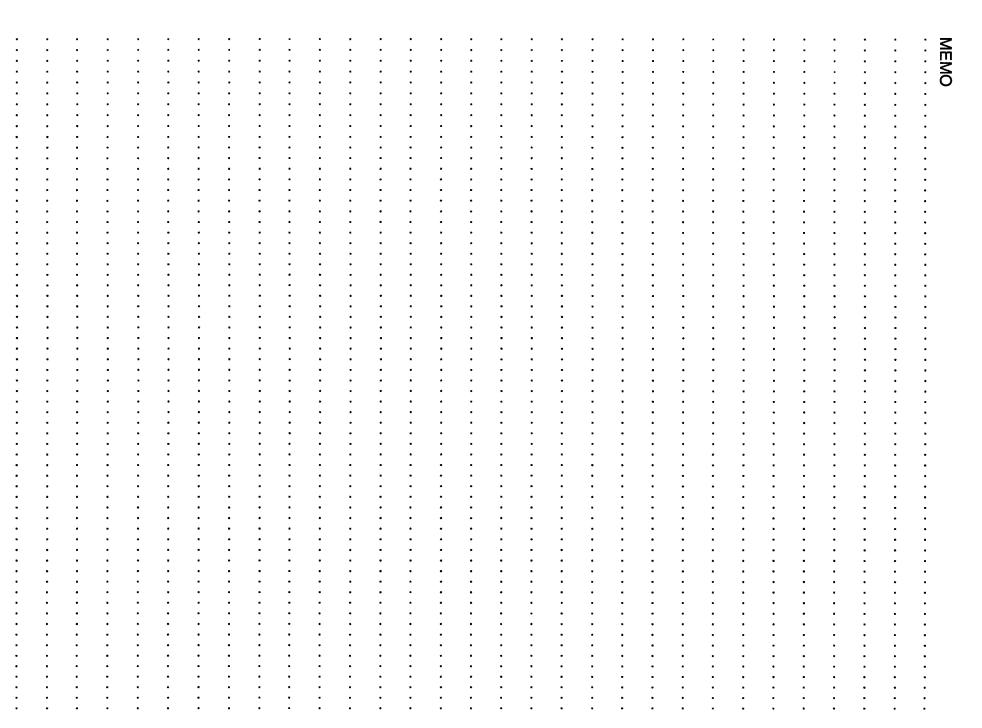


- 1) Lift up picture tube bracket assy and fit the hook of ① side board (L) to the notch on the assy. Then fix then with ② six screws (+BVTP 4X12).
- 2) Lift up picture tube bracket assy and fit the hook of ③ side board (R) to the notch on the assy. Then fix then with ④ six screws (+BVTP 4X12).

2-9-4. INSTALL A CHASSIS ASSY



- 1) Put ① chassis assy on chassis stays.
- 2) Put @ HA board on ① chassis assy.
- 3) You can carry the chassis assy in this condition.



SECTION 3 SET-UP ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Set in service mode. Use VP on the service mode menu to show only the green colour. Press the Commander Menu button (convergence) and output the test signal. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point. Use RG-RH from the service mode menu to set to green and red. Disply the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap. Use RG-BH from the service mode menu to set to red and blue. Disply the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap. 				FOCUS block Scanning line visible. A Minimize both A and B.
 DEFLECTION YOKE TILT ADJUSTMENT Set in service mode. Set to receive the monoscope signal. Use VP on the service mode menu to show only the green colour. Loosen the deflection yoke set screw and align the tilt of the deflection yoke so that the bars at the centre of the monoscope pattern are horizontal. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green. 	Monoscope pattern			4-pole magnet Deflection yoke Neck Assy Anode cap

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
4-POLE MAGNET ADJUSTMENT 1. Set in service mode.			4-pole magnet	Use the center dot
 Set to receive the dot pattern signal. Place the caps on the red and blue lens so that only the green colour is showing. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle. 				x:y=1:2
DEFOCUS ADJUSTMENT				
 Receive the crosshatch signal. Adjust the Blue FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right. Blue only defocus Adjustment. 	Crosshatch pattern		FOCUS VR • BLUE	• Focus adjustment point a: b=1:4

ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y136A), all circuit adjustments can be made.

NOTE: Test Equipment Required.

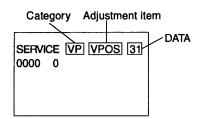
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

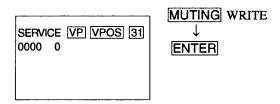
- 1. Standby mode. (Power off)
- 2. $\boxed{\text{DISPLAY}} \rightarrow \boxed{5} \rightarrow \boxed{\text{VOL}(+)} \rightarrow \boxed{\text{TV POWER}}$ on the Remote Commander. (Press each button within a second.)

SERVICE MODE ADJUSTMENT



- 3. The CRT displays the item being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the adjustment item.
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. Press 2 or 5 on the Remote Commander to select the category.
- 7. If you want to recover the latest values press 7 then **ENTER** to read the memory.
- 8. Press MUTING then ENTER to write into memory.

SERVICE ADJUSTMENT MODE MEMORY



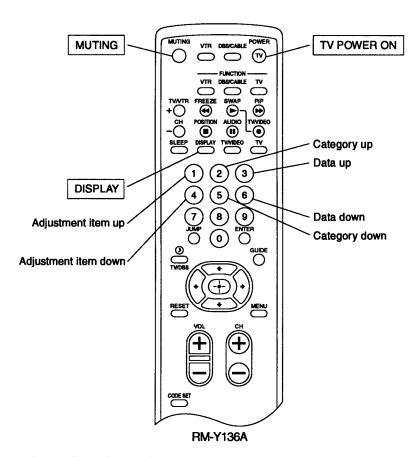
- 8. Press 8 then ENTER on the Remote Commander to initialize.
- 9. Turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again and confirm they were adjusted.

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3. ADJUST BUTTONS AND INDICATOR



4. SERVICE MODE LIST

VΡ

Category	Adjustment item	Standard data	Note	Device
VP	VPOS		V SHIFT	
	VSIZ		V SIZE	
	VCOM	0	HV-COMP-V	
	VLIN	7	VLIN	
	VSCO	7	S CORRECTION	
	HPOS	7	н ѕнігт	
1	HSIZ		H SIZE	
	PAMP		PIN AMP	

Category	Adjustment item	Standard data	Note	Device
VP	UPIN	7	UPPER CORNER PIN	
'-	LPIN	7	LOWER CORNER PIN	,
	PPHA	7	HTRAPEZOID	
	AFC	2	AFC LOOP GAIN	
1	VBOW	7	VBOW	
ĺ	VANG	7	VANGLE	
ļ	REF	3	AKB REFERENCE	
	GDRV	_	GREEN DRIVE	
	BDRV		BLUE DRIVE	
	GCUT		GREEN CUT OFF	
	BCUT		BLUE CUT OFF	
	SCON		SUB CONTRAST	
	SHUE		SUB HUE	
	SCOL		SUB COLOR	
	SBRT		SUB BRIGHTNESS	
	SSHP	7	SUB SHARPNESS	
	GMMA	1	GAMMA LEVEL	
	CDM2	0	COUNT DOWN MODE 2	
	DPIX	1	DYNAMIC PICTURE	
	Y-DC	1	DC TRANSMISSION RATIO	
	ABLM	1	ABL MODE	
	AXIS	0	R-Y, G-Y AXIS	
ŀ	NOTC	0	CTRAP	
	CROM	7	CTRAPFO	
1	TOT	0	C TOT FILTER	
	PREL	3	PRE/OVER LEVEL	
	SHPF	1	SHARPNESS FO	
	RON		RED ON/OFF	
1	GON		GREEN ON/OFF	
	BON		BLUE ON/OFF	
	DCOL		DYNAMIC COLOR	
	CDMD	0	V COUNT DOWN	
	LBLK	13	H BLK WIDTH LEFT SIDE	
	RBLK	13	H BLK WIDTH RIGHT SIDE	

AP

Category	Adjustment item	Standard data	Note	Device
AP	SVOL	0	SUB VOLUME	
	SBAL	0	SUB BLANCE	
	SBAS	7	SUB BASS	
	STRE	7	SUB TREBLE	

Category	Adjustment item	Standard data	Note	Device
RG	GH CENT		GREEN H SENT	
	GH SKEW		GREEN H SKEW	
	GH BOW	ļ	GREEN H BOW	
	GH 4BOW		GREEN H 4TH BOW	}
	GH SIZE		GREEN H SIZE	
	GH LIN	ļ !	GREEN H LINEARITY	
	GH MSIZ		GREEN H MID SIZE	
l	GH MLIN	}	GREEN H MID LINEARITY	
	GH KEY		GREEN H KEY	
	GH SSKW		GREEN H SUB SKEW	
	GH MPIN		GREEN H MID PIN	
	GH PIN		GREEN H PIN	
	GH SBOW		GREEN H SUB BOW	
}	GH MBOW		GREEN H MID BOW	
	GH 4PIN		GREEN H 4TH PIN	
	GH 4BOW		GREEN H 4TH BOW	
	GV CENT		GREEN V CENT	
	GV SKEW		GREEN V SKEW	
	GV BOW		GREEN V BOW	
	GV SIZE		GREEN V SIZE	
	GV LIN		GREEN V LINEARITY	
	GV MSIZ		GREEN V MID SIZE	
	GV MKEY		GREEN V MID KEY	
	GV KEY		GREEN V KEY	
	GV SSKW		GREEN V SUB SKEW	
	GV MPIN		GREEN V MID PIN	
į	GV PIN		GREEN V PIN	
	GV SBOW		GREEN V SUB BOW	
İ	GV WAVE		GREEN V WAVE	
	GV 4PIN		GREEN V 4TH PIN	
	RH CENT		RED H CENT	
	RH SKEW		RED H SKEW	
i	RH BOW		RED H BOW	
1	RH 4BOW		RED H 4TH BOW	
ì	RH SIZE		RED H SIZE	
ļ	RH LIN		RED H LINEARITY	
İ	RH MSIZ		RED H MID SIZE	
	RH MLIN		RED H MID LINEARITY	
	RH KEY		RED H KEY	
	RH SSKW		RED H SUB SKEW	
ļ	RH MPIN		RED H MID PIN	
ļ	RH PIN		RED H PIN	
1	RH SBOW		RED H SUB BOW	
	RH MBOW		RED H MID BOW	

Category	Adjustment item	Standard data	Note	Device
RG	RH 4PIN		RED H 4TH PIN	
	RH 4BOW		RED H 4TH BOW	
	RV CENT		RED V CEVT	
	RV SKEW	İ	RED V SKEW	i
	RV BOW		RED V BOW	
	RV SIZE		RED V SIZE	
	RV LIN		RED V LINEARITY	
	RV MSIZ		RED V MID SIZE	
	RV MKEY		RED V MID KEY	
	RV KEY		RED V KEY	
	RV SSKW		RED V SUB SKEW	
	RV MPIN		RED V MID PIN	
	RV PIN		RED V PIN	
	RV SBOW		RED V SUB BOW	
	RV WAVE		RED V WAVE	
	RV 4PIN		RED V 4TH PIN	
	RV WING		RED V WING	
	BH CENT		BLUE H CENT	
	BH SKEW		BLUE H SKEW	
	BHBOW		BLUEHBOW	
	BH 4BOW		BLUE H 4TH BOW	
	BHSIZE		BLUE H SIZE	
	BHLIN		BLUE H LINEARITY	
	BH MSIZ		BLUE H MID SIZE	
	BHMLIN		BLUE H MID LINEARITY	
	BH KEY		BLUE H KEY	
	BH SSKW		BLUE H SUB SKEW	
	BH MPIN		BLUE H MID PIN	
	BHPIN		BLUE H PIN	
	BH SBOW		BLUE H SUB BOW	
ĺ	BHMBOW		BLUE H MID BOW	
	BH 4PIN		BLUE H 4TH PIN	
İ	BH 4BOW		BLUE H 4TH BOW	
	BV CENT		BLUE V CENT	
	BV SKEW		BLUEVSKEW	
	BVBOW		BLUEVBOW	
	BV SIZE BV LIN		BLUE V SIZE	
	BV LIN BV MSIZ		BLUE V LINEARITY BLUE V MID SIZE	
	BV MSIZ BV MKEY		BLUE V MID SIZE BLUE V MID SIZE	
	BV MKEY			
İ	BVSSKW		BLUE V KEY BLUE V SUB SKEW	
	-			
	i	}		
	BV MPIN BV PIN		BLUE V SUB SKEW BLUE V MID PIN BLUE V PIN	

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Category	Adjustment item	Standard data	Note	Device
RG	BV SBOW		BLUE V SUB BOW	
	BV WAVE		BLUE V WAVE	
	BV 4PIN		BLUE V 4TH PIN	
	BV WING		BLUE V WING	

CC

Category	Adjustment item	Standard data	Note	Device
CC	CRIH	9	CRI COUNT HIGH	
	CRIL	2	CRI COUNT LOW	
	CR2L	2	CRI COUNT LOW(F2)	
	CCDI	3	NO CCD INT COMPARE	
	CRIP	7	CRI & PARITY ERROR	
	CRIT	0	CRI TIME CONSTANT	
	CSB1	2	SYNC SLICE BIAS 1	
	CSB2	5	SYNC SLICE BIAS 2	
	CCBD	4	C SYNC BACKPORCH DET	
	CCFD	7	C SYNC FRONTPORCH DET	
	CREP	136	CRI SIGNAL END POSITION	
	CSEP	176	START BIT END POSITION	
	CRBD	8	CRI BACKPORCH DET	
	CRFD	9	CRI FRONTPORCH DET	
	CSSD	3	STROBE WINDOW ST DLY	
	CSED	9	STROBE WINDOW ED DŁY	
	CSBS	12	START BIT THRESHOLD	
	CDSD	8	DATA START DELAY	
	CCDS	9	CAPTION DT THRESHOLD	
	CHMK	38	H SYNC MASK WIDTH	
	CHSY	144	H SYNC VCO COUNT	

OP

	Category	Adjustment item	Standard data	Note	Device
Γ	OP	DISP		OSD POSITION	

ID

Category	Adjustment item		dard ita	Note	Device
		S	46C		
ID	IDO	25	25	MODEL ID#0	
	IDI	21	55	MODEL ID#1	
	ID2	31	31	MODEL ID#2	

Category	Adjustment item	Stan da	dard ita	Note	Device
		S	46C		
ID	ID3	00	00	MODEL ID#3	
	ID4	155	155	MODEL ID#4	
	ID5	177	177	MODEL ID#5	
	ID6	198	198	MODEL ID#6	
	ID7	66	66	MODEL ID#7	

PP

Category	Adjustment item	Standard data	Note	Device
PP	BGHP	-	PIP H POSITION	
	BGVP	-	PIP V POSITION	
	MAHP	-	P&P MAIN H AQUISITION	
	MAVP	-	P&P MAIN V AQUISITION	
	SAHP	-	P&P SUB H AQUISITION	
	SAVP	-	P&P SUB V AQUISITION	
	DECS	-	S DECODER REGISTERS	
	DECM	-	M DECODER REGISTERS	
	DIS	-	DISPLAY SETTING	
	BHSZ	-	BORDER H SIZE	
	BVSZ	-	BORDER V SIZE	
	VPED	-	V OFFSET	
	UPED	-	U OFFSET	

PS

Category	Adjustment item	Standard data	Note	Device
PS	PIPH		PIP H POSITION	
l	PIPV		PIP V POSITION	
	PMVD	16	PIP V PULSE DELAY(M)	
	PIVD	22	PIP V PULSE DELAY(I)	
İ	PCON		PIP CONTRAST(I)	
	FRMY	7	PIP FRAME Y LEVEL	
	IPER	0	PIP PEDESTAL R-Y(I)	
	IPEB	0	PIP PEDESTAL B-Y(I)	
	IHUE		PIP SUB HUE	
	ICOL	}	PIP SUB COLOR	
	PHDL	3	PIP H PULSE DELAY	
Į	PYSD	0	PIP SELECT DELAY	
	PYDL	0	PIP Y DELAY	
	PCPS	0	PIP CLP	
	PCPF	0	PIP CLP CYCLES	
	PSEL	0	PIP SELDOWN	

Category	Adjustment item	Standard data	Note	Device
PS	PPLL	0	PIPPLL	
	CHRI	1	PIP INPUT POLARITY	
	CHRO	0	PIP OUTPUT POLARITY	

MC

Category	Adjustment item	Standard data	Note	Device
МС	MSCN	-	P&P MAIN SUB CONTRAST	
!	MSHU	-	P&P MAIN SUB HUE	
	MSCL	-	P&P MAIN SUB COLOR	
1	MUPD	-	P&P MAIN U OFFSET	
	MVPD		P&P MAIN V OFFSET	
	MDLY	-	P&P MAINY DELAY	
	MBGR	-	P&P MAIN SCP CONTROL(1)	!
	MBGF	-	P&P MAIN SCP CONTROL(2)	

IC

Category	Adjustment item	Standard data	Note	Device
IC	SSCN	-	P&P SUB SUB CONTRAST	
	SSHU	-	P&P SUB SUB HUE	
Ì	SSCL	-	P&P SUB SUB COLOR	
1	SUPD	-	P&P SUB U OFFSET	
	SVPD	-	P&P SUB V OFFSET	
l	SDLY	-	P&P SUB Y DELAY	ļ
l	SBGR	-	P&P SUB SCP CONTROL(1)	
	SBGF	-	P&P SUB SCP CONTROL(2)	
	PAFC	-	PIP AFC LOOP GAIN	
}	PTOT	-	PIP CHROMA TOT FILTER	
]	PYDR	-	PIPY DRIVE	
	PYDC	1 -	PIPDCTRAN	
1	PSHP	-	PIP SHARPNESS FO	ł
į	PDPI	-	PIP DYNAMIC PICTURE	
	PSYS	-	PIP COLOR SYSTEM	
Ì	PXTL	-	PIP X' TAL	
ł	PLOP	-	PIP COLOR LOOP	}

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
CONVERGENCE ADJUSTMENT				
•When replacing the deflection yoke, always perform "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence.				
Adjustment procedure VP MAIN RG GH (SUB), RG GV (SUB) RG RH(SUB), RG RV (SUB) RG BH (SUB), RG BV (SUB)				
GREEN REGISTRATION ADJUSTMENT V-SHIFT adjustment	Monoscope pattern or Crosshatch pattern		<vp menu=""> VP VPOS</vp>	vpos -
V-LINEARITY adjustment			VP VSIZ	vsiz -
V-SIZE, V-CORRECTION adjustment While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal.			VP VLIN VP VSCO	VLIN VSCO

	EQUIPMENT	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
ADJUSTMENT ITEM AND PROCEDURE	AND SIGNAL	POSITION	LOCATION	AND NUMBER
• H-SHIFT adjustment			VP HPOS	HPOS +
H-SIZE adjustment Finely adjust with SUB MSIZ.			VP HSIZ	HSIZ +
PIN-AMP adjustment Finely adjust with SUB MPIN.			VP PAMP	PAMP (((())))
UPPER/LOWER-CORNER PIN adjustment Correct the screens top and bottom bow line. However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be re-adjusted.			VP UPIN	UPIN →
Note: The PIN-AMP adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have large movement in the top and bottom sections, so be careful.			VP LPIN	LPIN -
V-BOW, V-ANGLE adjustment Correct the tilt and bow of the vertical line at the center of the screen.			VP VBOW	VBOW →
			VP VANG	VANG The state of the state of

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN SUB ADJUSTMENT SCREEN CENTER SECTION GREEN VERTICAL LINE ADJUSTMENT 1. Finely adjust with GH CENT, GH BOW, GH SKEW. Adjust by watching out for the RGH CENT screen center section.			<rg-gh menu=""> GH CENT GH SKEW GH BOW</rg-gh>	Watch out only for the GH CENT center point. Watch the vertical center line.
2. GH 4TH BOW adjustment Correct the corner distortion that could not be adjusted away with the GH BOW adjustment.			GH 4BOW	GH CENT GH SKEW GH BOW GH 4BOW GH 4BOW

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Finely adjust the center position of the vertical line at the center of the screen with GV CENT.			GV CENT	Watch the horizontal center line. Watch out only for the RGV CENT center point.
				GV CENT
Correct the tilt and bow of the horizontal line at the center of the screen with GV SKEW and GV BOW.			GV SKEW GV BOW	GV SKEW
				GV BOW
GREEN SIZE AND LINEARITY ADJUSTMENT			<rg-rh menu=""></rg-rh>	1
Balance the sizes at both sides of the center section of the screen with GH MLIN. Balance the sizes on both end sections of the screen with GH LIN.			GH MLIN GH LIN	- MLIN,
 While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right. 				

	EQUIPMENT	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
ADJUSTMENT ITEM AND PROCEDURE	AND SIGNAL	POSITION	LOCATION	AND NUMBER
 GREEN HORIZONTAL SIZE ADJUSTMENT Adjust with GH MSIZE so that the sizes of both ends and of both sides of the center section of the screen are equal. Adjust with GH SIZE so that the horizontal sizes of both ends and of both sides of the center section of the screen are equal. While tracking, adjust with GH MSIZ and GH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value. If M LIN is changed when the GH MSIZ and GH SIZE adjustment is complete, adjust again while tracking. 			<rg-gh menu=""> GH MSIZ GH SIZE</rg-gh>	MSIZ SIZE GH MUN GH MSIZ GH UN
 With just the H SIZE adjustment in MAIN, if there is no need to adjust GH SIZE in SUB this can save power. GREEN VERTICAL LINEARITY ADJUSTMENT 1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical. 			<rg-gv menu=""> GV LIN</rg-gv>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN VERTICAL SIZE ADJUSTMENT Adjust with GV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal. Set the vertical size to the prescribed value with GV SIZE. Adjust GV MSIZ and GV SIZE watching the vertical line at the center section of the screen. While tracking, adjust with GV MSIZ and GV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value. If GV LIN is out of place when the GV MSIZ and GV SIZE adjustment is complete, adjust again while tracking. If there is no need to adjust GV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power. 			<rg-gv menu=""> GV MSIZ GV SIZE</rg-gv>	MSIZ SIZE GV LIN GV SIZE GV MSIZ
 GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT 1. Adjust with GH SSKW so that the tilt of the vertical lines at both ends of the screen is symmetrical left and right. 2. Adjust with GH KEY so that there is no tilt in the vertical lines at both ends of the screen. 3. If there is a tilt on either the left or right after the GH KEY adjustment, adjust while tracking. 			<rg-gh menu=""> GH SSKW GH KEY</rg-gh>	SS KW KEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 GREEN HORIZONTAL QUATERNARY ADJUSTMENT 1. Correct the quaternary distortion with GH 4PIN. 2. While balancing, correct the quaternary distortion of both end sections of the screen with GH 4SBO. 3. While tracking, adjust with GH 4PIN and GH 4SBO. 			<rg-gh menu=""> GH 4PIN GH 4BOW</rg-gh>	4 PIN () 4 BO
GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT 1. Adjust with GH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical. 2. Adjust with GH SBOW so that the bow at both end sections of the screen is symmetrical left and right. 3. While tracking, adjust with GH MBOW and GH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right.			<rg-gh menu=""> GH MBOW GH SBOW</rg-gh>	M BOW S BOW

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gh menu=""></rg-gh>	
 Adjust the pin distortion at both sides of the center section of the screen with GH MPIN. Adjust the pin distortion at both end sections of the screen with GH PIN. While tracking, adjust with GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing. If there is asymmetrical pin distortion after the GH MPIN and GH PIN adjustments, adjust with GH MBOW and GH SBOW while tracking. 			GH MPIN GH PIN GH MBOW GH SBOW	M PIN DIN PIN
With just the PIN AMP adjustment in MAIN, if there is no need to adjust GV PIN in SUB, this can save power. GREEN VERTICAL WAVE (TERTIARY DISTORTION)			<rg-gv menu=""></rg-gv>	GH MBOW GH PIN GH SBOW GH MPIN
ADJUSTMENT				
Take the screen top and bottom horizontal lines with GV WAVW and find the secondary and quaternary waveform.			GV WAVE	GV WAVE
There is KEY distortion after the GV WAVW adjustment, so adjust with GV WAVW and GV KEY while tracking.			GV KEY	GV KEY GHMPIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with RGV 4PIN.			GV 4PIN	GV 4PIN
 Since there is no 4SBOW for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen. In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK. 				
GREEN VERTICAL TRAPEZOIDAL DISTORTION			<rg-gv menu=""></rg-gv>	
1. Adjust with GV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about			GV SSKW	GV SSKW
the center position horizontal line. 2. Adjust with GV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the			GV MKEY	
stream. 3. Adjust with GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen. 4. While tracking, adjust with GV MKEY and GV KEY so that there is no tilt for the horizontal lines on the entire screen.			GV KEY	MKEY KEY
5. If the tilt is unbalanced after the GV MKEY and GV KEY adjustment, adjust again with GV SSKW.			GV SSKW	GV SSKW GV MKEY GV MKEY

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT			<rg-gv menu=""></rg-gv>	
Correct the asymmetrical pin distortion at the top and bottom sections of the screen with GV SBOW.			GV SBOW	RGV SBOW
GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT			<rg-gv menu=""></rg-gv>	
 Adjust the pin distortion for both side sections and the center of the screen with GV MPIN. Adjust with GV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines. Adjust with GV MPIN and GV PIN so that there is no curve in the horizontal lines on the entire screen. 			GV MPIN GV PIN	MPIN 1 PIN
After the adjustments in Items 1-3, adjust the tracking with GV SBOW, GV MPIN, and GV PIN.			GV SBOW	GV SBOW GV PIN

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV) 1. Receive a cross-hatch signal. 2. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUBadjustment. Notes: 1. The main correction is not carried out during red registration adjustment. 2. Beware. The green adjustment items can be changed by mistake. 3. Unlike for green, adjust within the range -127 ~+128.	Cross-hatch pattern			
GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV) 1. Receive a cross-hatch signal. 2. Adjust so that the blue and green lines are on top of each other. Notes: 1. The main correction is not carried out during RED registration adjustment. 2. Beware. The GREEN and RED adjustment items can be changed by mistake.	Cross-hatch pattern			

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT	ADJUSTMENT	ILLUSTRATION AND SHAPE
AGC ADJUSTMENT 1. Receive an off-air signal. 2. Adjust the AGC VR (TU 1001) so that there is no snow noise and cross-modulation. WHITE BALANCE ADJUSTMENT 1. Receive the monoscope pattern signal and adjust the picture quality with the menu. 2. Adjust service mode SBRT so that the signal 10 IRE section barely glows.	And Signal. Aonoscope pattern Il White pattern		PICTUREminimun <rgb menu=""> RGB SBRT RGB GCUT RGB BCUT PICTUREminimun RGB GDRV RGB BDRV PICTUREmaximum</rgb>	AND NUMBER

SECTION 4 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD] HV REGULATION CIRCUIT CHECK AND ADJUSTMENT		☐ marked parts C514, C516, C515,	⊠ C514	Remove the cap off from the unused terminal and connect a static voltmeter
When replacing the following components marked with on the schematic diagram always check HV regulation, and if necessary readjust. OPERATION CHECK 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. Check that the HV static voltmeter is reading 31.00±1.0kVdc. HV Regulation adjustment 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 2. Power on the set. 3. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 4. If anode voltage is 32kV or higher, replace C514 of 390PF/2kV with that of 680PF/2kV, and check if the voltage is within the standard range. 5. If anode voltage is 30kV or lower, replace C514 of 390PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range.		T502 (PMT), T503 (HLT), T504 (FBT), DEFLECTION YOKE, IC651		G BOARD -COMPONENT SIDE- C514 R561 CN505 R512 CN505

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
[G BOARD] HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT (☑ R514, R561) When replacing the following components marked with ☑ on the schematic diagram, always check hold-down voltage and if necessary re-adjust. OPERATION CHECK 1. Remove CN651 connecter. 2. Short-circuit across TP-PROT (R692) and ground. 3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. 4. Connect a 220k variable resistor, across pin ③ and pin ⑤ of IC651 set to maximum value. 5. Power on the set. 6. Receive dot signal pattern. (PICTURE and BRIGHT to minimum) 7. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of 33.5±1.0kVdc when the raster disappears. HV HOLD-DOWN ADJUSTMENT 1. Repeat steps ⑥ ~ ⑦ as above. 2. If hold down voltage is 34.5kV or higher, remove R514, mount a resistor (390kΩ, 1/4W : RN) onto R561 instead, and check again if the hold-down voltage is within the standard range. 3. If hold-down voltage is 32.5kV or lower, mount a resistor (220kΩ, 1/4W : RN) onto R561, and check again if the hold-down voltage is within the standard range. NOTE : Please finish the adjustment as soon as possible.				G BOARD -COMPONENT SIDE- CS14 R561 R514 CN505 R512 CN505 CN505

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION		ON AND SHAPE IUMBER
[G BOARD]					
+B MAX VOLTAGE CONFIRMATION				G BOARD	-COMPONENT SIDE-
 The following adjustments should always be performed when replacing IC651. Supply 130VAC to variable autotransformer. Input dot signal. Set the PICTURE control and the BRIGHTNESS controls to minimum. Confirm if the voltage of G BOARD TP135V is less than 137.0 Vdc. If step 4 is not satisfied, replace IC651 and repeat above steps. 				C514 R6 0- -0 Q	R514 CN505
 Remove CN651 connector. Connect a voltmeter to TP135V, and TP (PROT) and ground. Connect a 220kΩ variable resistor, across pin ③ and pin ⑤ of IC651, and set to maximum value. Supply 120VAC to variable autotransformer. Set PICTURE and the BRIGHTNESS controls to minimum. Gradually turn the 220kΩ variable register, and check if OVP works properly when the voltage of TP135V is between 139.0~151.5V. 					

SECTION 5 CIRCUIT ADJUSTMENT

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
 Input a color-bar signal. Adjust AGC VR of TU1101 so that snow, noise, and cross-modulation disapper from the picture. Verify picture quality on each channel. 				
 BER DISPLAY ADJUSTMENT (DISP) Receive cross-hatch signal. Set to Service mode. Select "DISP", and adjust so that the blank spaces on the both sides of picture bar become equal. Write the data into memory. MUTING → ENTER 				A A=B B
SUB-CONTRAST ADJUSTMENT (SCON) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum RON1 GON0 BON0 3. Set to service mode. 4. Connect an oscilloscope between ⑤ pin of CN004 (A Board) and ground. 5. Select "SCON" and adjust so that the wave from level is 1.50±0.1Vp-p. 6. Write the data into memory MUTING → ENTER				1.50±0.1Vp-p

EQUIPMENT

AND SIGNAL

ADJUSTMENT ITEM AND PROCEDURE

MEASUREMENT

POSITION

ADJUSTMENT

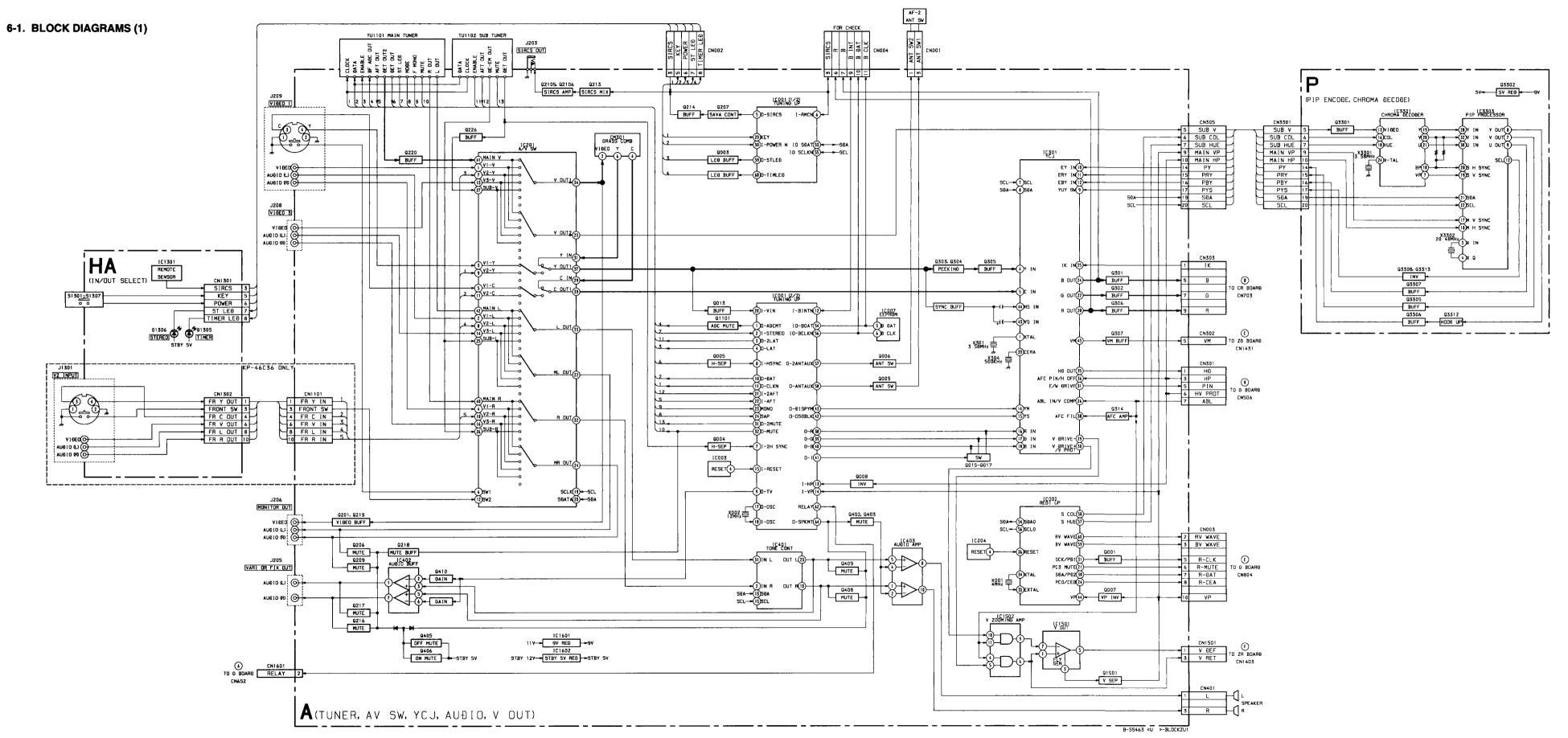
LOCATION

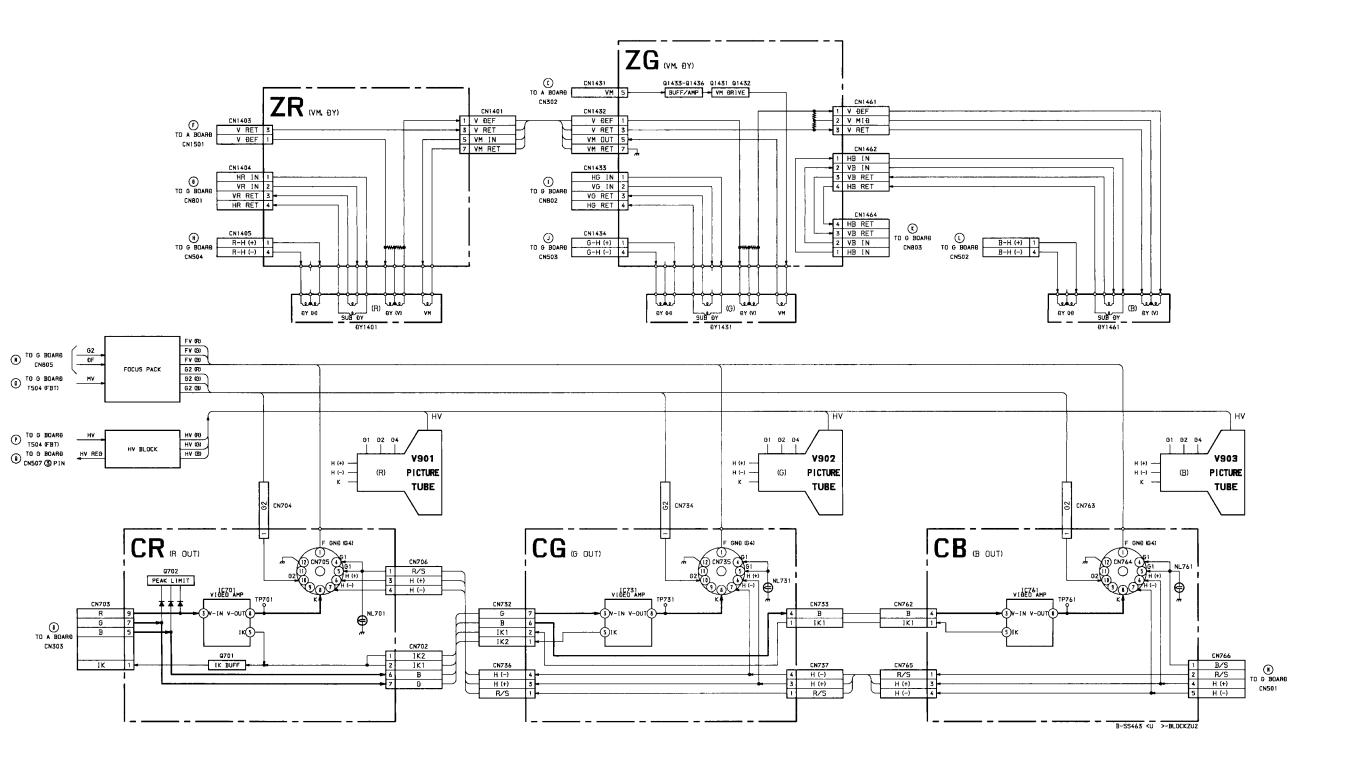
ILLUSTRATION AND SHAPE

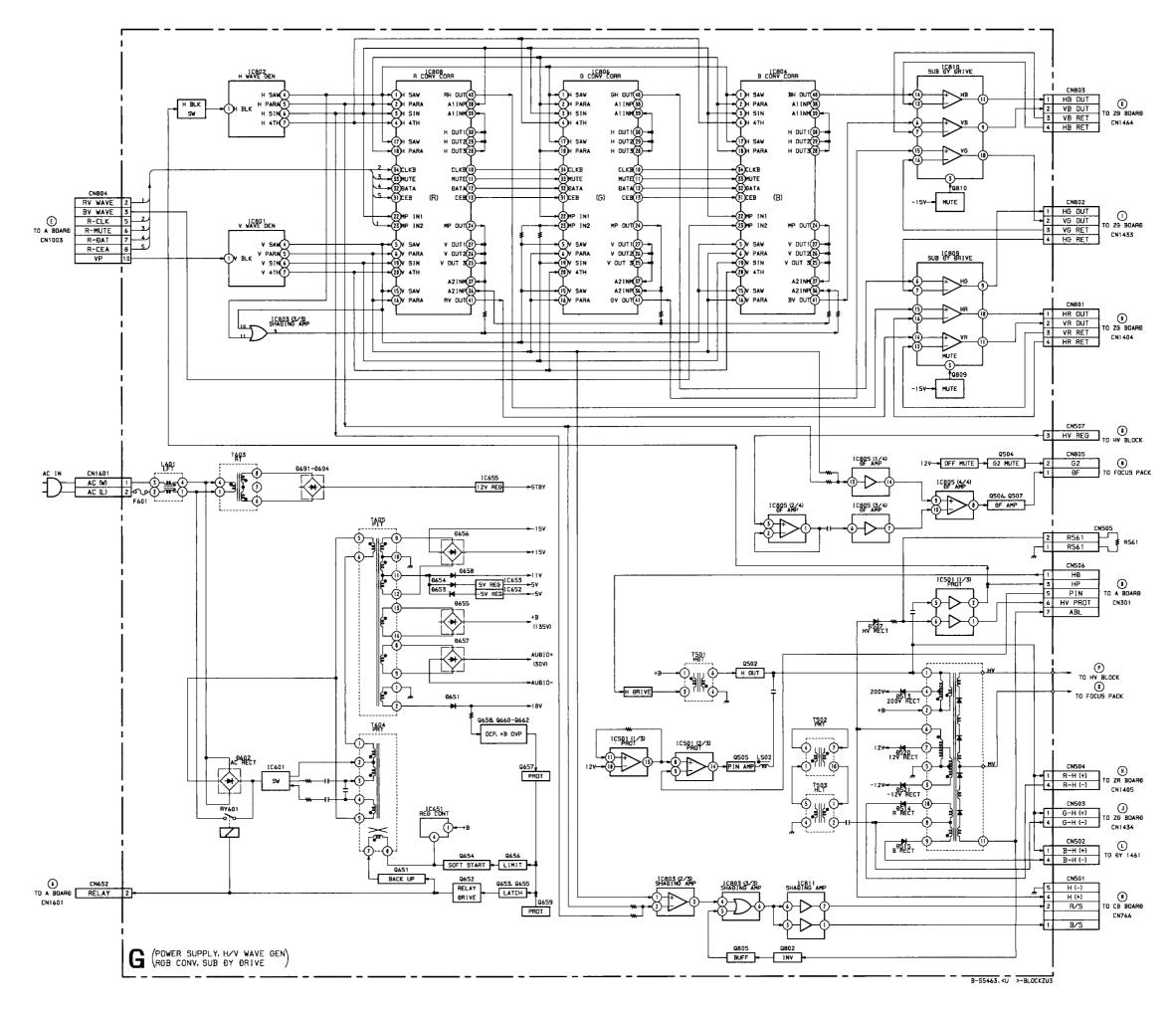
AND NUMBER

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
P IN P POSITION ADJUSTMENT (PIPH, PIPV) 1. Receive monoscope pattern signal. 2. Set to P IN P mode, and to Service mode. 3. Check the SUB PICTURE position. 4. Select "PIPH" and "PIPV" and adjust H/V position to the specified level. 5. Write the data into memory MUTING→ENTER				H: 7.00 ± 0.25sq V: 5.25 ± 0.25sq
P IN P SUB CONTRAST ADJUSTMENT (PCON) 1. Receive color-bar signal. 2. PICTURE : maximum COLOR : minimum BRIGHTNESS: minimum 3. Set to Service mode. 4. Connect an oscilloscope between ⑨ pin CN303 (A Board) and ground. 5. Select "P CON" and adjust so that waveform level is 1.4±86 Vp-p. 6. Write the data into memory. MUTING → ENTER				1.4±899 1.4±899 ———————————————————————————————————

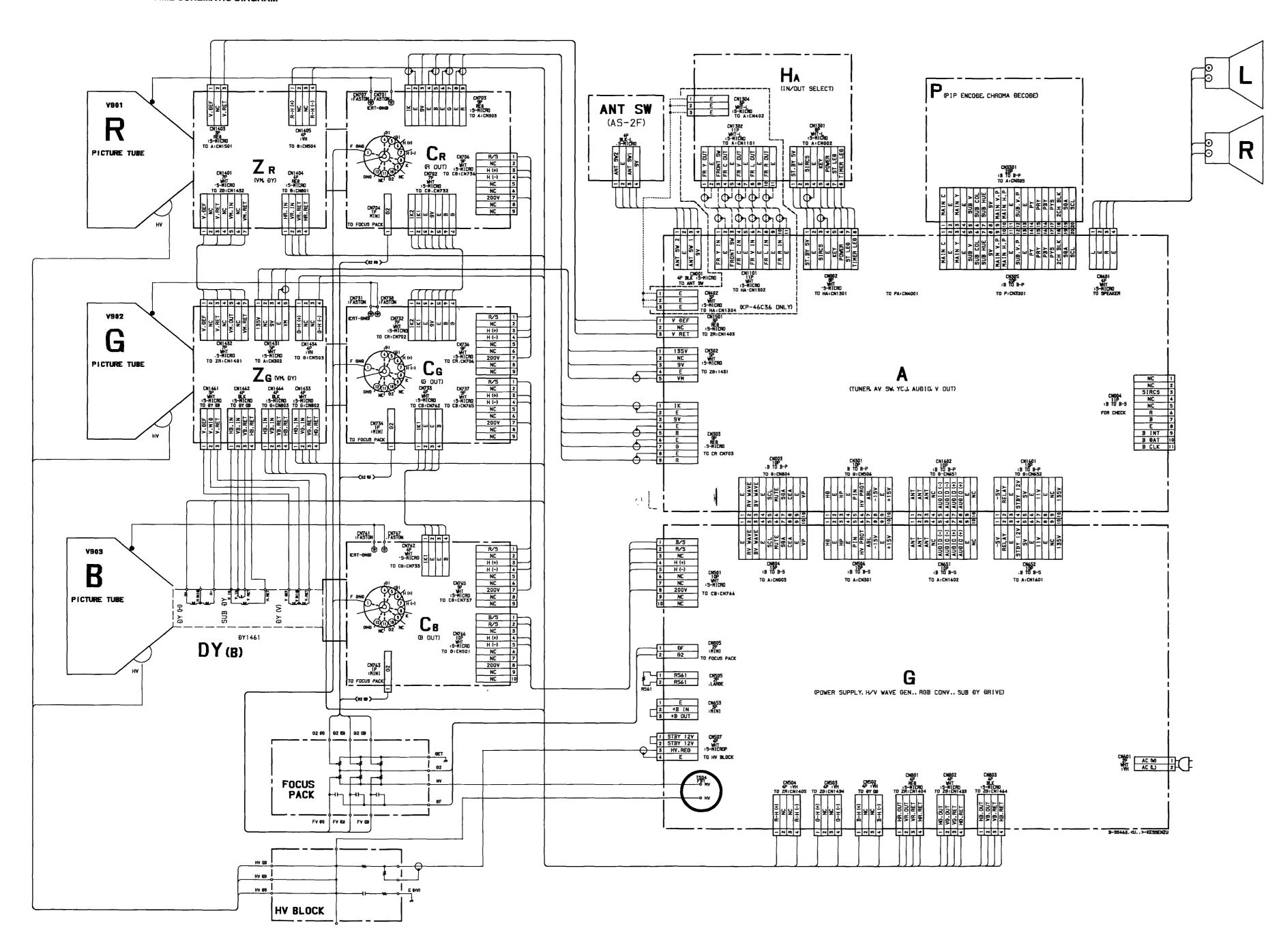
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
PIN P SUB HUE, SUB COLOR ADJUSTMENT (IHUE, ICOL) 1. Receive the color-bar signal. 2. PICTURE : maximum COLOR : center BRIGHTNESS: center 3. Set to Service mode. 4. Connect an oscilloscope between ⑤ pin of CN303 (A Board) and ground. 5. Select "IHUE" and ICOL, adjust them to have VB1=VB4 and VB2=VB3 in the waveform levels. 6. Raise "ICOL" data 1 steps higher. 7. Write the data into memory. MUTING → ENTER	AND SIGNAL		ADJUSTMENT LOCATION	



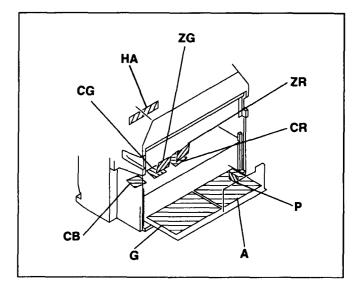




- 61 - - - 62 -



6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less
- are not indicated except for electrolytics and tantalums.
- All resistors are in ohms. $k\Omega \approx 1000\Omega, \, M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows
- Pitch. 5 mm Rating electrical power: 1/4W
- nonflammable resistor
- tusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless
- otherwise noted.

 e : earth-chassis.
- The components identified by

 in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.

 When replacing components identified by ☐, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ☐ and repeat the adjustment untill the specified
- value is achieved.

 (Refer to R514, R561 and C514 adjustment on Page 49 to 51.)

 When replacing the part in below table, be sure to perform the related
- When replacing the part in below table, be sure to perform the related adjustments.

Part replaced (☑)	Adjustment (►)
C514, C515, C516, IC651, T502, T503, T504, DY	HV Regulator (C514)
C507, C513, D501, D504, D507, IC301, IC501, IC651, R502, R514, R516, R517, R539, R560, R561, T502, T503, T504, DY	HV HOLD-DOWN (R514, R561)

- As to the voltage value shown by the semiconductors on the Schematic
- Diagram, see the another list.

 Readings are taken with a color-bar signal input.
- Readings are taken with a color-bar signal input.
 Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
 Voltage variations may be noted due to normal production tolerances.
- All voltages are in V
- * : Measurement impossibility.
 Circled numbers are waveform reference
- Circled numbers as
- — B + line
 — B ~ line
- 🖒 signal path (RF)

Note: The symbol light display is on the component side.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

The symbol Immit indicate fast operating fuse. Replace only with fuse of same rating as marked.

Note: Les composants identifiés per un tramé et une marque ≜ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole — indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

RESISTOR : RN METAL FILM RC SOLID · FPRD NONFRAMMABLE CARBON . FUSE NONFRAMMABLE FUSIBLE : RW NONFRAMMABLE WIREWOUND : RS NONFRAMMABLE METAL OXIDE RB NONFRAMMABLE CEMENT · ※ ADJUSTMENT RESISTOR COIL LF-8L MICRO INDUCTOR CAPACITOR . TA TANTALUM

Reference information

. PS STYROL : PP POLYPROPYLENE · PT MYLAR

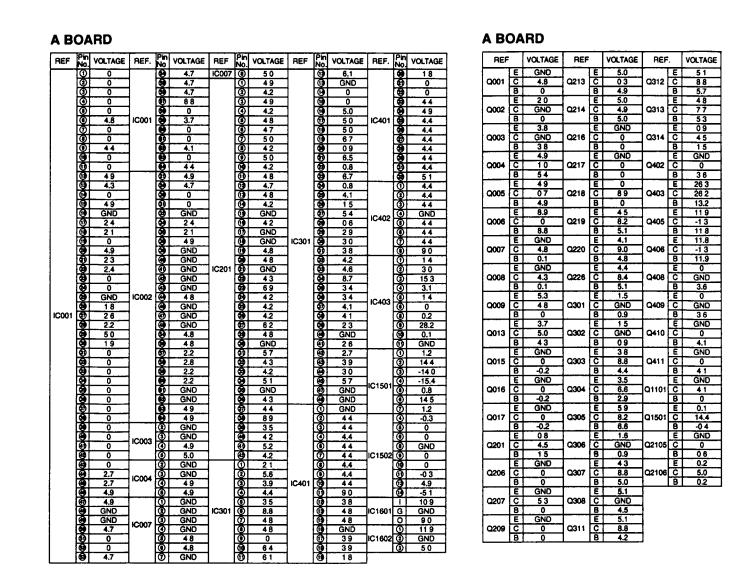
MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

ALR HIGH RIPPLE

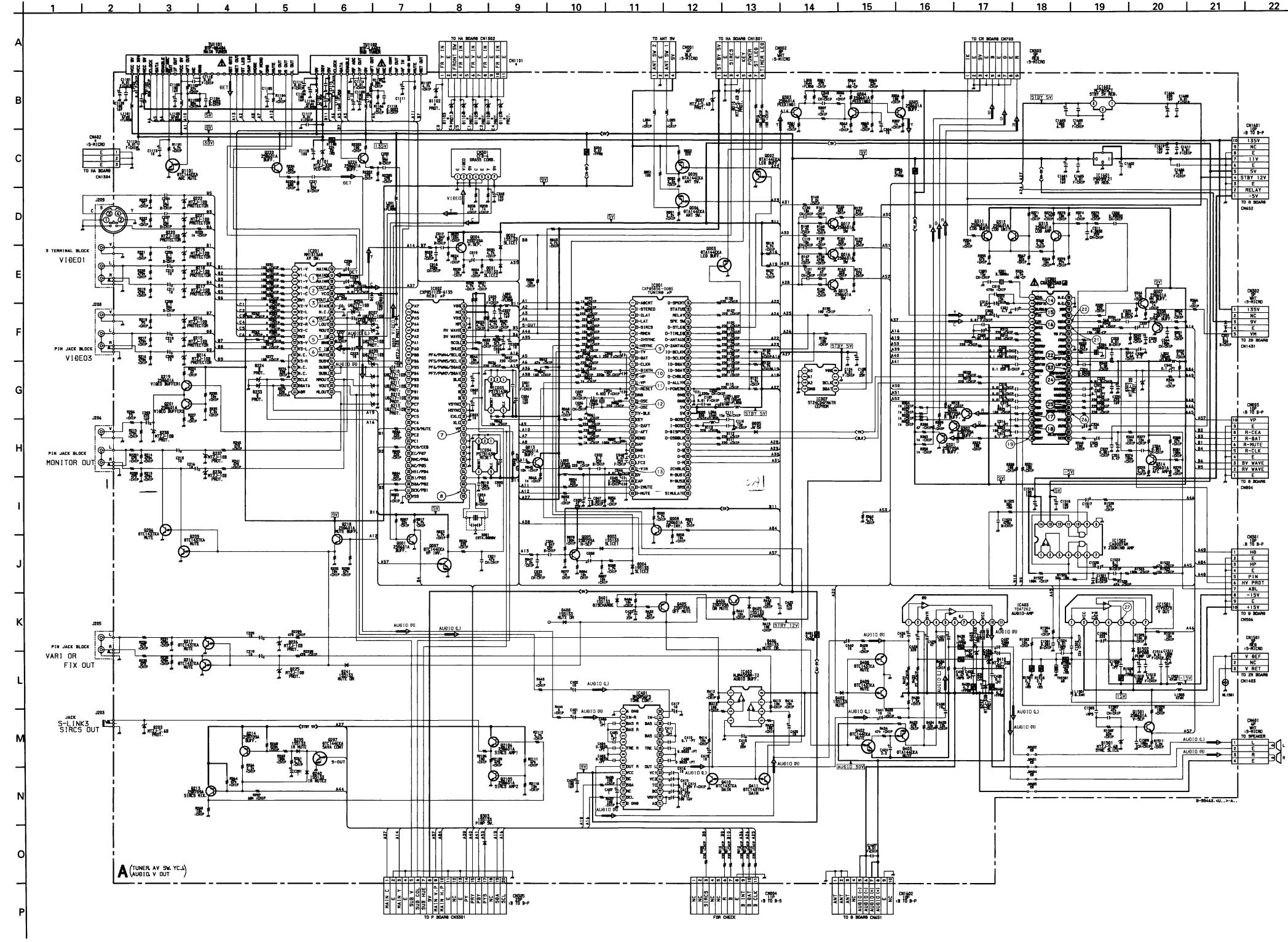
Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol		Circuit
①	Transistor	T	Collector Base Emitter	2 2
2	Transistor	_	Collector Base Emitter	المهر كهر
3	Diode	R	Cathode - Anode	Š.
•	Diode	T	Cathode Anode (NC)	Ŷ
(3)	Diode	-	Cathode Anode (NC)	، 🗗 ،
•	Diode	T	Common Anode Cathode	٩
0	Diode	_	Common Anode Cathode	^l →+→ ¹
8	Diode	T	Common Anode Anode	9.
9	Diode		Common Anode Anode	լ ⊳ ၊ + Վ շ
10	Diode	T	Common Cathode Cathode	ا ا
0	Diode	_	Common Cathode Cathode	
13	Transistor (FET)		Drain Source Gate	
139	Transistor (FET)	 	Drain Source Gate	so so
10	Transistor (FET)		Source Drain Gate	
(19)	Transistor	+	C2 81 E1 E2 82 C1	B10 C10 OC2 B10 OE2
10	Transistor	+	C1 B2 E2 E1 B1 C2	C10 OC2 B10 A DOB2
0	Transistor		C1 B2 E2 E1 B1 C2	E10 6 E2
180	Transistor		C1 82 E2 E1 B1 C2	B10 DE2 O B2
19	Transistor	_	E2 B1 E1 C2 C1(B2)	C1(82) Q QC2 810- E2Ó QE2
39	Transistor		(62) B1 E1 E2 C1 C2	E1(B2) Q QE2 B10
2	Transistor	_	(82) E2 E1 B1 C2 C1	E1(B2) Q QC2 B1Q C1Q QC2
	Discrete ea	miconductot		



A BOARD	10	10
①	2	3
	, The part of	The the
1 4Vp-p (H)	2.2Vp-p (H)	2.2Vp-p (H)
4	(5)	6
	They they	
2.2Vp-p (H)	2.2Vp-p (H)	2.2Vp-p (H)
7	8	9
	/////////////////////////////////////	
5 0Vp-p (V)	5.4Vp-p (4MHz)	4.0Vp-p (H)
10	100	
		//////////////////////////////////////
5 0Vp-p (H)	5 0Vp-p (V)	3.4Vp-p (12MHz)
13	139	15
	www	
2.0Vp-p (H)	0.14Vp-p (3 56MHz)	2.0Vp-p (H)
16	①	18
	_{[
2.0Vp-p (H)	2 4Vp-p (H)	2 4Vp-p (H)
19	20	1 1 2 1
Thint hint		
2 4Vp-p (H)	2 0Vp-p (H)	2 OVp-p (H)
@	23	1 9 9 9
\mathcal{M}		
0 13Vp-p (500kHz)	4 8Vp-p (H)	6 0Vp-p (H)
29	26	1
1 3Vp-p (V)	1 3Vp-p (V)	60Vp-p (V)

CN1101 # 11P WHT :S-MICRO D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT :S-MICRC CN1101 # 11P WHT :S-MICRC D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT :S-MICRO CN1101 # 11P WHT :S-MICRO D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT :S-MICRC CN1101 # 11P WHT :S-MICRC D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT :S-MICRC CN1101 # 11P WHT :S-MICRC D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT :S-MICRO CN1101 # 11P WHT :S-MICRO D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k :CHIP R280 # 470 :CHIP R281 # 470 :CHIP R282 # 470 :CHIP R283 # 470 :CHIP R284 # 470 :CHIP R285 # 470 :CHIP	CN402 # 3P WHT:S-MICR CN1101 # 11P WHT:S-MICR D1102 # UDZ 17-10B D1103 # UDZ 17-10B D1104 # UDZ 17-10B D1105 # UDZ 17-10B D1106 # UDZ 17-10B D1107 # UDZ 17-10B D1107 # UDZ 17-10B R262 # 82k:CHIP R280 # 470:CHIP R281 # 470:CHIP R282 # 470:CHIP R283 # 470:CHIP R284 # 470:CHIP R285 # 470:CHIP	CN402 # CN1101 # D1102 # D1103 # D1104 # D1105 # D1106 # D1107 # R262 # R280 # R281 # R282 # R283 # R284 #	UDZ 17-10B UDZ 17-10B UDZ 17-10B UDZ 17-10B UDZ 17-10B 82k:CHIP 470:CHIP 470:CHIP 470:CHIP 470:CHIP 470:CHIP
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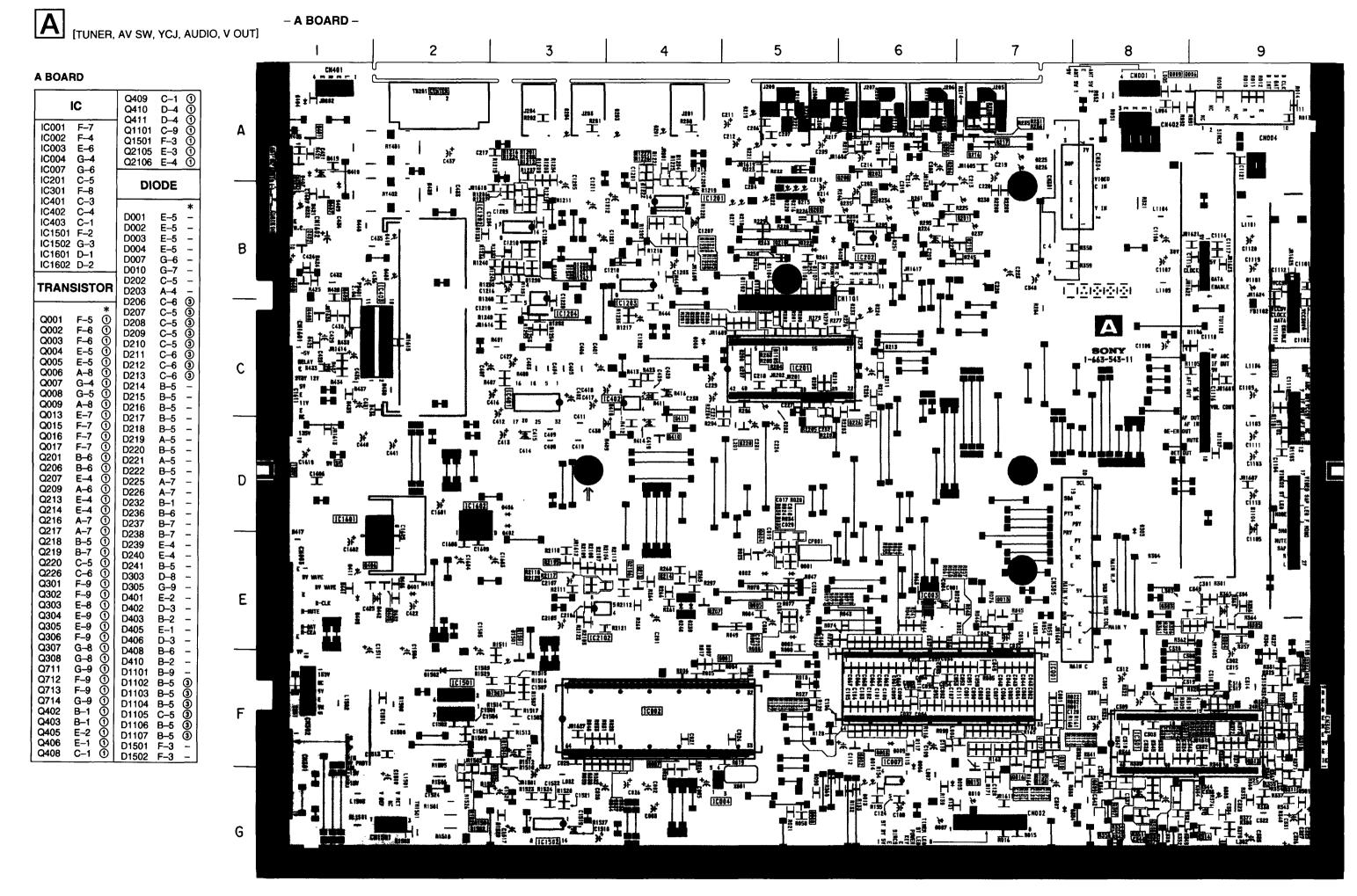


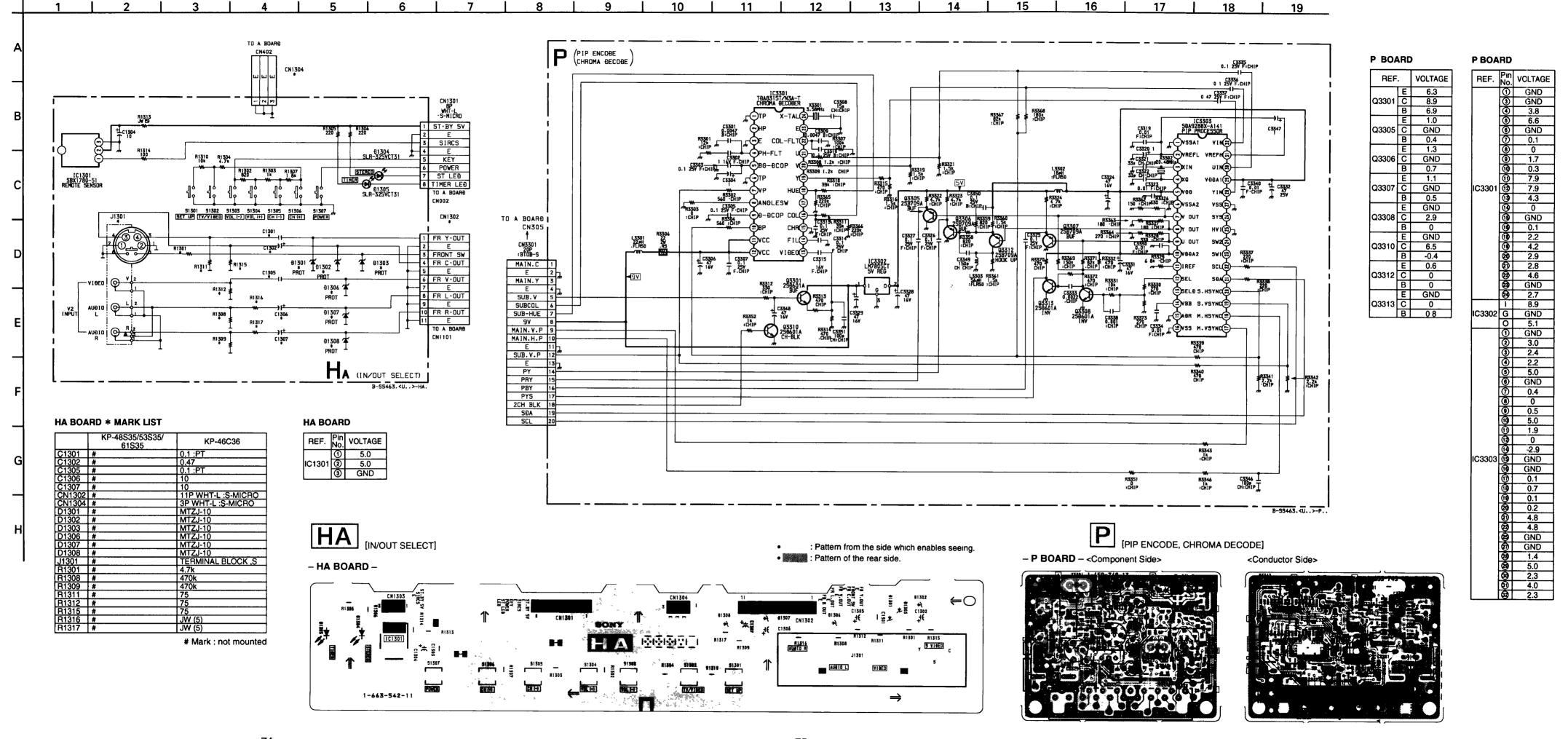
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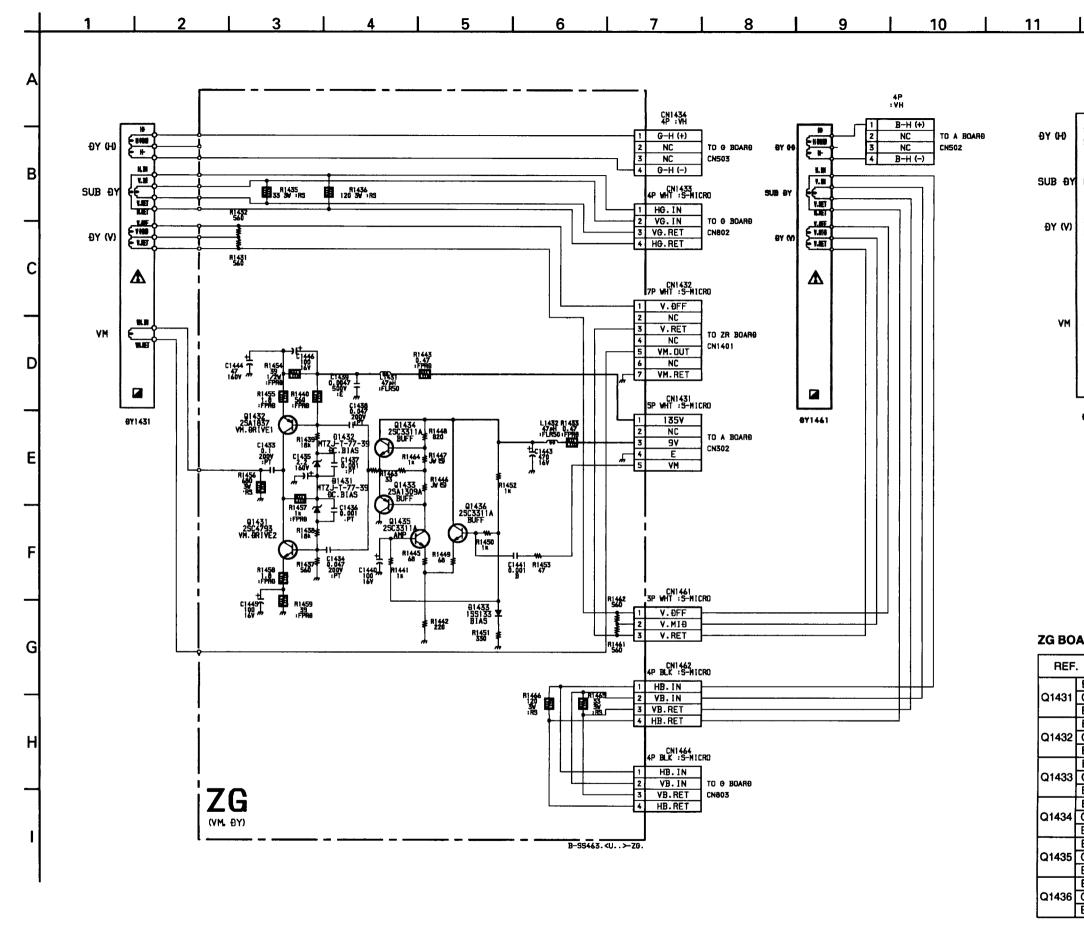
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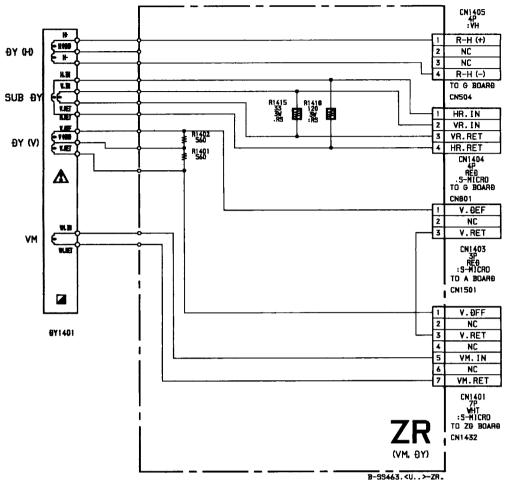
– 70 –

- 68 -









15

12 | 13 | 14 |

ZG BOARD

REF		VOLTAGE	
	Ε	0.5	
Q1431	C	67.2	
	В	0.9	
	ш	138.4	
Q1432	C	67.2	
	В	134.4	
	ш	5.8	
Q1433	ပ	GND	
	В	5.7	
	Ε	5.8	
Q1434	၀	9.0	
	В	5.7	
- /	E	2.1	
Q1435	C	5.7	
	В	2.7	
,	E	2.1	
Q1436	C	9.0	
	В	2.7	



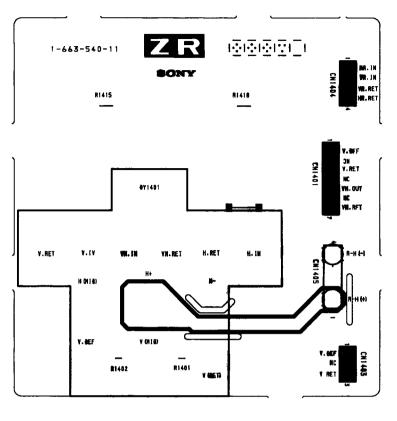
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

> Schematic diagrams ← ZG, ZR boards

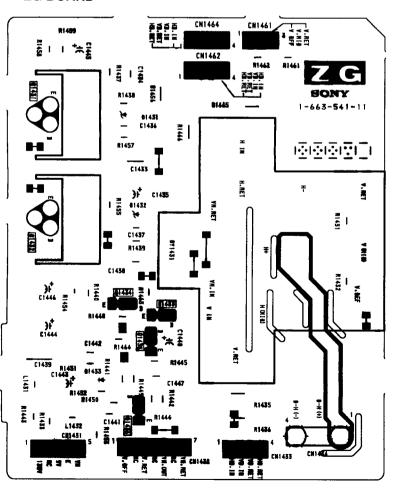




- ZR BOARD -

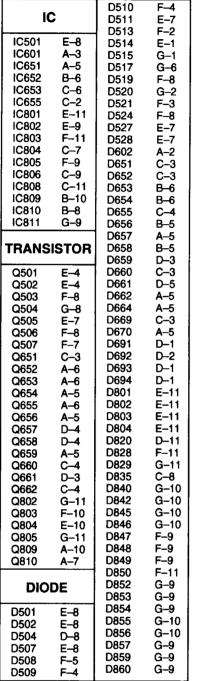


- ZG BOARD -





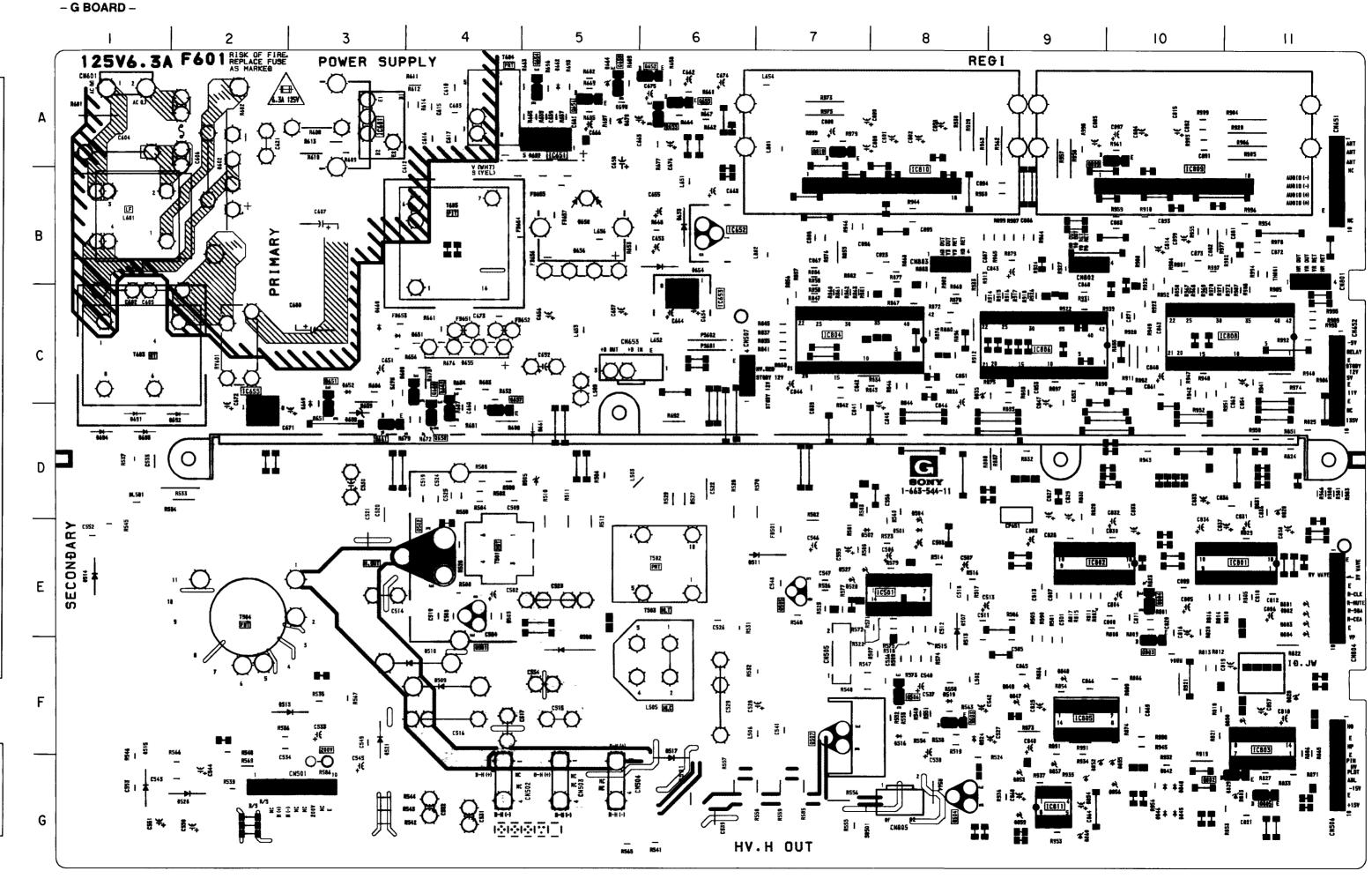
G BOARD

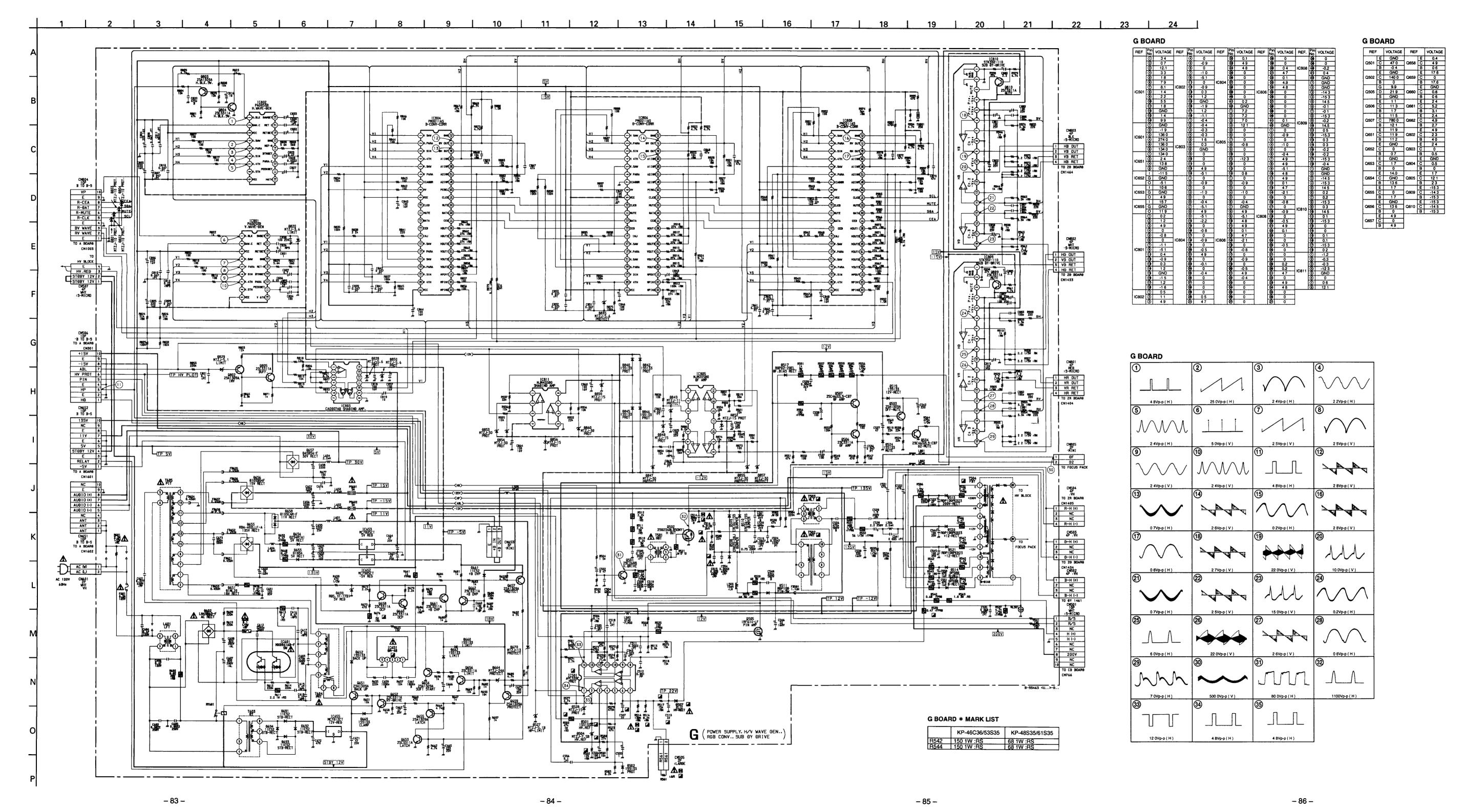


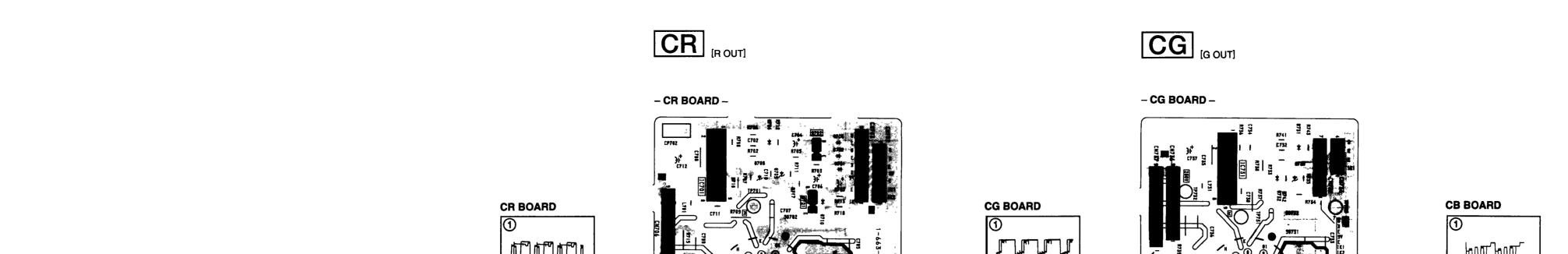


NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

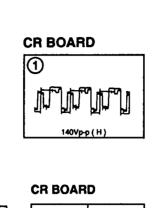


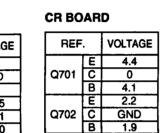




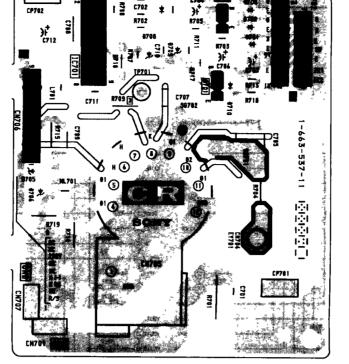


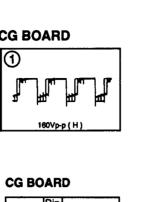
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

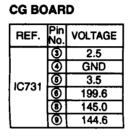


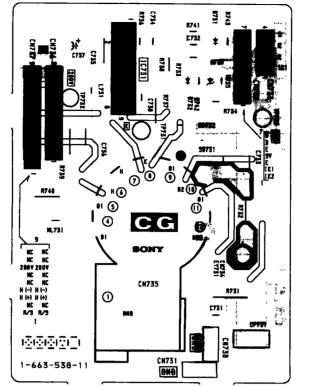


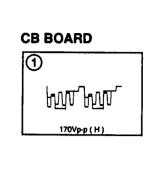
CR BOARD

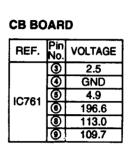


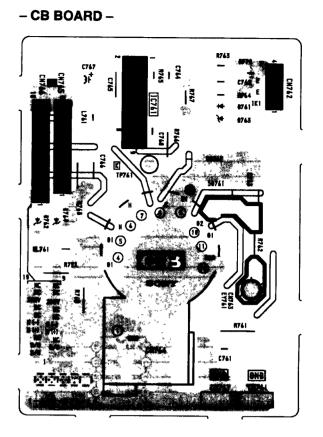




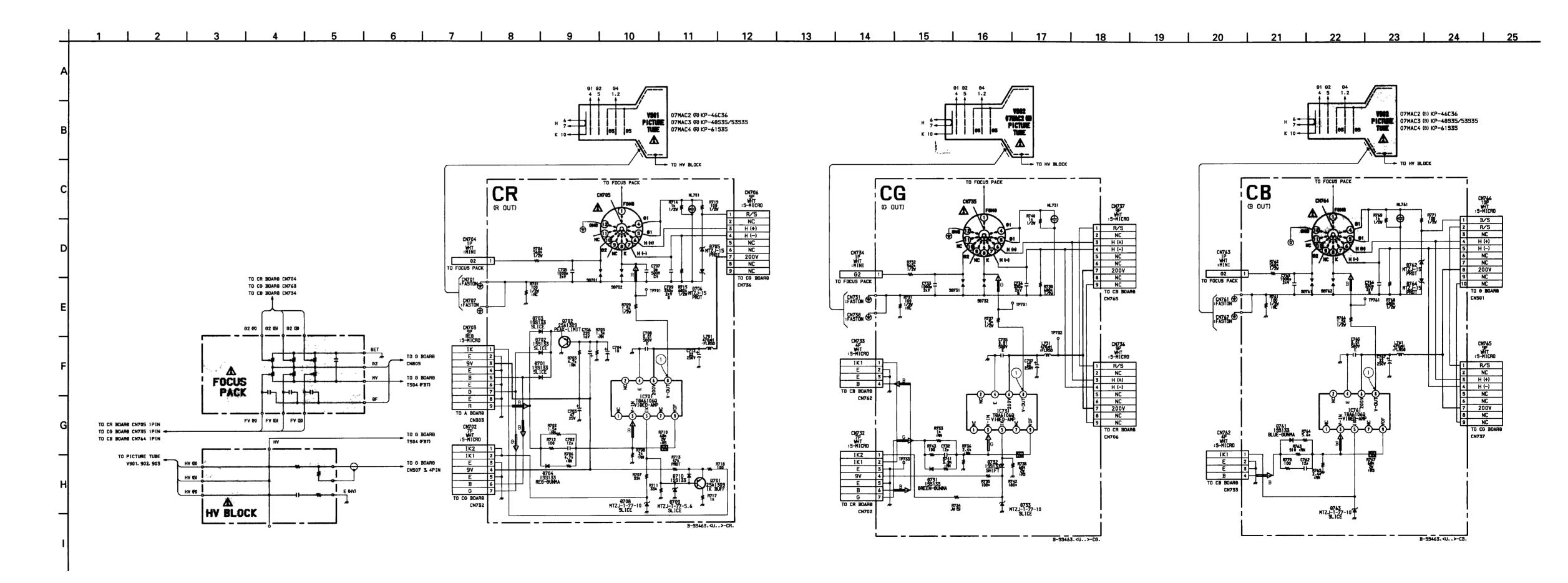








CB [BOUT]



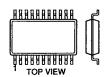
Schematic diagrams

CB, CG, CR boards →

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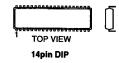
6-5. SEMICONDUCTORS

BH3856FS-E2 SDA9288X-A141

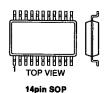


32pin SOP

CA0007AD NJM2058D μPC339C



CA0007AM



CXA2025AS



CXP85112B-613S CXP85856-005S



64pin DIP

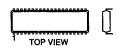
LM7805CT MC7805CT MC7812CT PQ09RF21 TA7805S TA7812S



MC7905CT

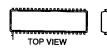


MM1313AD PM0011AS



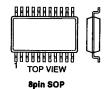
42pin DIP

M5218AP NJM4558D



8pin DIP

NJM4558M-T2 ST24C04FM6TR μPC4558G2 X24C04S8



PA0053B



PST9143NL



5pin chip

SBX1780-51



STK392-110



STV9379



TDA2009A

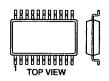


TDA6106Q



9pin ZiP

TDA8315T/N3A-T

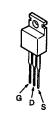


24pin SOP

DTA144EKA-T146 DTC143TKA-T146 DTC144EKA-T146 2SA1162G 2SB709A-QRS-TX 2SD601A-Q 2SD601A-QRS-TX



IRF614 IRF614-LF



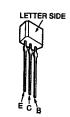
MC780CT 2SA1837 2SC4793



MX0841-AB-F



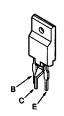
2SA1175-HFE 2SA1309A-QRSTA 2SC2785-HFE 2SC3311A-QRSTA



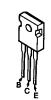
2SC2688-LK



2SC4632LS-CB7



2SD2348 (LB SONY-1)



DTZ10B UDZ-TE-17-10B



D1NL20 EL1Z GP08D GP08DPKG23 RGP02-20EL-6394 RGP10GPKG23



D1NS4 HZS9.1NB2 MTZJ-30A MTZJ-33B MTZJ-7.5B MTZJ-T-77-10 MTZJ-T-77-10B MTZJ-T-11 MTZJ-T-15 MTZJ-T-20A MTZJ-T-24A MTZJ-T-3.6 MTZJ-T-30 MTZJ-T-33B MTZJ-T-39 MTZJ-T-5.1 MTZJ-T-5.1B MTZJ-T-5.6 MTZJ-T-5.6B MTZJ-T-7.5B MTZJ-T-9.1B RD10ESB2 RD11ES-B2 RD20ES-B2 RD24ES-B RD3.6ES-B1 RD39ES-B2 RD5.1ES-B1 **RD5.1ES-B2** RD5.6ESB2 11ES2



D2S4MF D2SMTA1



D4SBS4-F D10SBS4F LN4SB60 RBA-402LLF-A



D10SC4M



ERC06-15S 1SS133T-77



ERD29-08J



SLR-325VCT31



SECTION 7 EXPLODED VIEWS

NOTE:

- · Items with no part number and no description are not stocked because they are seldom required for routine service.
- · The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

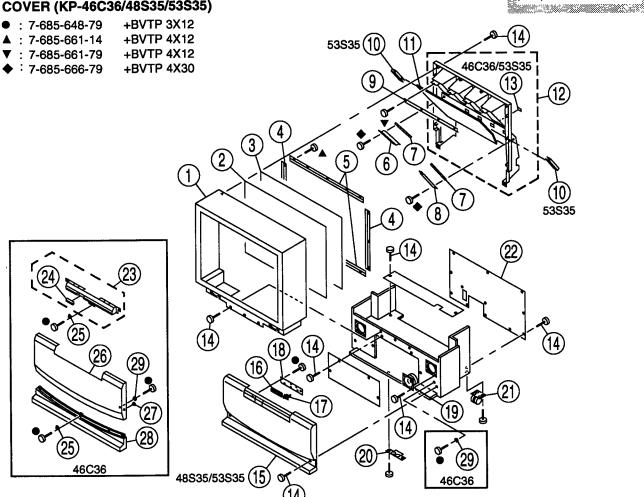
and the second second second second second second second second second second second second second second second The componants identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque & sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

CONTROL (2006) (CONTROL (2006) (CONTROL (2006) (CONTROL (2006) (CONTROL (2006) (CONTROL (2006) (CONTROL (2006)

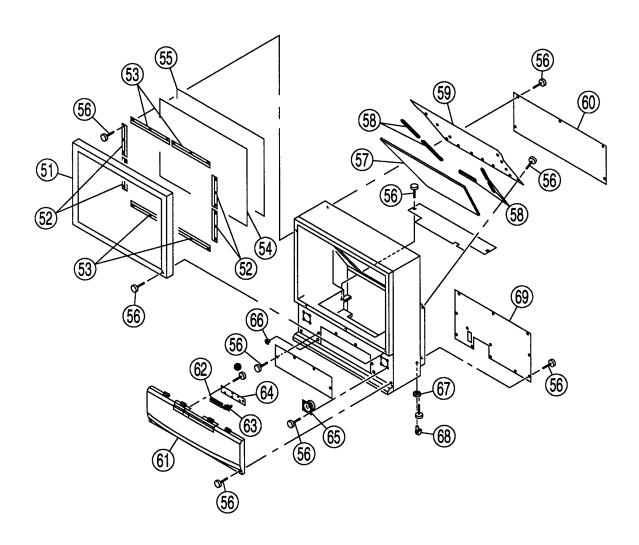
7-1. COVER (KP-46C36/48S35/53S35)



			$\overline{}$				
REF. NO). PART NO.	DESCRIPTION	REMARK	REF. NO	PART NO.	DESCRIPTION	REMARK
1	V 4022 000 1	BEZNET ASSY (46C36)		12	* X-4032-619-1	COVER ASSY, MIRROR (46C36)	13
1		BEZNET ASSY (53S35)			* X-4032-620-1	COVER ASSY, MIRROR (53S35)	13
		BEZNET ASST (3333) BEZNET ASSY (48S35)		13	4-048-150-01		
2	A-4034-436-1	PLATE (L), DIFFUSION (53S35)				,	
2				14	4-041-164-11	SCREW (4X20), TAPPING	
	4-037-360-11	PLATE (L), DIFFUSION (40C30)		15		GRILLE, SPEAKER (48S35/53S35)	
	4.050 454 11	DI ATE (I.) DIETICION (49025)		16		BUTTON, MULTI	
•	4-058-454-11	PLATE (L), DIFFUSION (48S35)		l iř		GUIDE, LED / IR	
3	4-036-469-11	PLATE (F), DIFFUSION (53S35)				HA BOARD, COMPLETE (46C36)	
		PLATE (F), DUFFUSION (46C36)		10	11 15/2 50/11	1111201212,001112212 (1000)	
		PLATE (F), DIFFUSION (48S35)	35\	İ	* A_1377_288_A	HA BOARD, COMPLETE (48S35/53	(\$35)
4	* 4-048-152-01	HOLDER (S), SCREEN (46C36/48S	(33)	19	1-505-378-11		.055)
				20		FOOT, PLASTIC	
		HOLDER (S), SCREEN (53S35)		20		CASTER (DIA. 30)	
5	* 4-048-159-01		:		* 4-057-844-01		
	* 4-048-159-11		35)	22	" 4-UJ/-044-UI	BUAKD (33), KEAR (33333)	
6	* 4-051-790-02				* 4 DED EE4 D1	BOARD (48), REAR (48S35)	
7	* 4-049-098-01	CUSHION			* 4-058-556-01		
					* 4-058-648-01		24
8	* 4-051-789-02			23	X-4034-456-1		24
9	* 4-037-351-01			24	4-057-605-11		
10	4-033-775-41			25	4-843-806-00	STRIKE (46C36)	
11	4-048-181-01	MIRROR (53), REFLECTION (53S)	35)	1 25	** 4004 455 1	CDULE ACOV CDEAVED (46C26)	
	4-048-182-01	MIRROR (46) (46C36)		26		GRILLE ASSY, SPEAKER (46C36)	
				27		LATCH (46C36)	
	4-058-545-01	MIRROR (48), REFLECTION (48S)	35)	28	4-057-608-01		
12	* 4-057-610-01			29	4-058-745-01	VELCRO (46C36)	
_		, ,		-			

7-2. COVER (KP-61S35)

• : 7-685-648-79 +BVTP 3X12



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO		DESCRIPTION	REMARK
51 52 53 54 55 56 57	X-4032-762-1 * 4-040-122-01 * 4-040-120-01 4-040-123-11 4-041-164-11 4-058-643-01	FRAME ASSY, SCREEN HOLDER (S), SCREEN HOLDER (L), SCREEN PLATE (L), DIFFUSION PLATE (F), DIFFUSION SCREW (4X20), TAPPING MIRROR, REFLECTION		61 62 63 64 65 66	4-057-602-01 4-057-603-01 4-057-604-01 * A-1372-288-A 1-505-378-11 4-838-438-00 4-030-850-01	GRILLE (61), SPEAKER BUTTON, MULTI GUIDE, LED / IR HA BOARD, COMPLETE SPEAKER (10CM) LATCH SOCKET, CASTER	
58 59 60	* 4-049-098-01 * 4-058-642-01 * 4-058-641-01	CUSHION BOARD, MIRROR COVER, TOP REAR		68 69	4-040-508-02 * 4-058-640-01	CASTER BOARD, REAR	

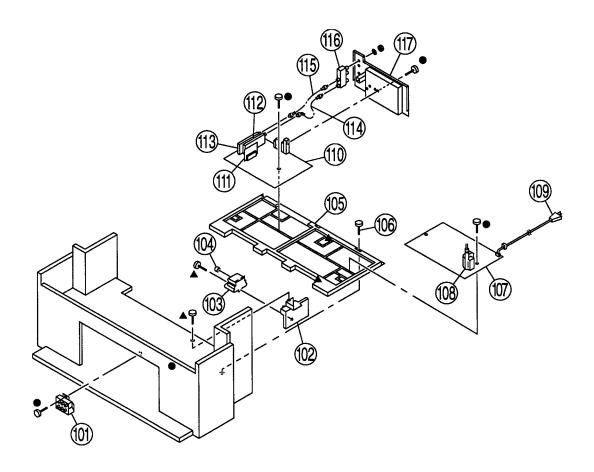
The componants identified by shading and mark ≜ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

DWST CHTHUTTWESTWER

7-3. CHASSIS

• : 7-685-648-79 +BVTP 3X12 +BVTP 4X12 **▲** : 7-685-661-14



REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. N	O. PART NO.	DESCRIPTION	REMARK
101 102 103 104 105	* 4-057-596-01 ▲ 8-598-955-20	RESISTOR ASSY (HIGH-VOLTA BRACKET, HV BLOCK ASSY, HIGH-VOLTAGE CAP (Z), RUBBER BRACKET, MAIN		110 111 112 113	* A-1298-009- * A-1195-103-	A A BOARD, COMPLETI A A BOARD, COMPLETI A P BOARD, COMPLETE D TUNER BTF-LA402 D TUNER BTF-WA404	E (46C36 only) 111
	* A-1316-295-A * A-1316-304-A Д 1-453-238-11	SCREW (4X20), HEAD TAPPING G BOARD, COMPLETE (46C36/5 G BOARD, COMPLETE (48S35/6 TRANSFORMER ASSY, FLYBA (CORD, POWER(WITH NOISE FI	3835) 1835) CK IX-4007//X4A4)	114 115 116 117	* 1-557-056-4 1-556-945-2 8-598-414-0 4-057-595-0 4-057-595-2	I CABLE, P-P O ANTENNA SWITCH A I TERMINAL BOARD (4	l8S35/53S35/61S35)

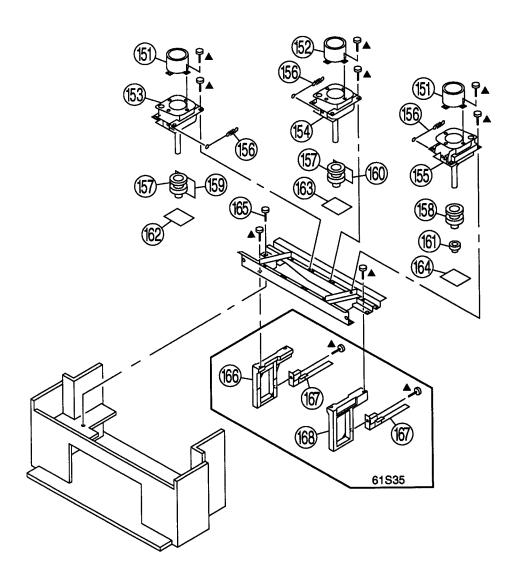
The componants identified by shading and mark ∆ are critical for safety. Replace only with part number

specified.

Les composants identifies par une trame et une marque \(\bar{\Delta} \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-4. PICTURE TUBE

+BVTP 4X12 **▲** : 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-040-131-01 4-056-258-01	LENS (LINNIT POINT (LENS (DELTA 78) (46C	(36/48S35/53S35)	156	4-048-142-01	PICTURE TUBE 07M/ SPRING, TENSION DEFLECTION YOKE	SC4(B) (61S35) (R) (C)
152 153 A	4-040-131-21 4-056-258-01 8-733-496-05	LENS (LINNIT POINT (LENS (DELTA 78) (46C PICTURE TUBE 07MA)	36/48S35/53S35) C2(R) (LONG NECK)	158 ₫	.1-451-455-21	DEFLECTION YOKE ZR BOARD, COMPLE	(B)
	K8-733-498-05	PICTURE TUBE 07MA	(GA) (46C36) C3 (R) (LONG NECK)	160 * 161	A-1390-683-A 1-452-909-11	ZG BOARD, COMPLE MAGNET ASSY, 4 PC	ETE DLE
	N 8-733-508-05	PICTURE TUBE 07MA	(GA) (48833/33833) C4(R) (61835)	163 *	* A-1331-668-A	CR BOARD, COMPLE CG BOARD, COMPLE	ETE
155 2	8-733-493-05	PICTURE TUBE 07MA	C2(B) (LONG NECK) (GA) (46C36)			CB BOARD, COMPLE SCREW (4X20), HEAL BOARD (L), SIDE (61	D TAPPING
	N 8-733-497-05	PICTURE TUBE 07MA	C3 (B) (LONG NECK) (GA) (48\$35/53\$35)	1 7.7.2	4-058-638-01 4-057-613-01	STAY, CHASSIS (61S BOARD (R), SIDE (61	35)

SECTION 8 ELECTRICAL PARTS LIST

REF. NO.

PART NO.



REMARK

NOTE:

Les composants identifies par une trame et une marque \(\Delta\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark Λ are critical for safety.

Replace only with part number specified.

The components identified by
 in this manual
have been carefully factory-selected for each set
in order to satisfy regulations regarding X-ray
radiation. Should replacement be required,
replace only with the value originally used.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

• CAPACITORS

DESCRIPTION

PF: μμ F

 There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

RESISTORS

· All resistors are in ohms

	* A-1195-103-	A P BOARD, CO						<coil></coil>				
						L3301	1-408-413-00	INDUCTOR 22U	Ή			
		-CADACITODS				L3302		INDUCTOR 18L				
		<capacitor></capacitor>				L3303	1-408-418-00	INDUCTOR 56L	Н			
C3301		CERAMIC CHIP		10%	50V	į						
C3302		CERAMIC CHIP			16V	<u> </u>		<transistor:< td=""><td>></td><td></td><td></td><td></td></transistor:<>	>			
C3303 C3304	1-163-038-91	CERAMIC CHIP	1MF	20%	25V 50V	Q3301	8 720 422 27	TD A MCICTOD 1	CD4014 O	ne w		
C3305		CERAMIC CHIP		2070	25V	Q3305	8-729-026-49	TRANSISTOR 2 TRANSISTOR 2	SA1037AK	KS-1A -T146-R		
						Q3306	8-729-026-49	TRANSISTOR 2	SA1037AK	-T146-R		
C3306 C3307	1-126-967-11	ELECT CERAMIC CHIP	47MF	20%	16V 25V	Q3307		TRANSISTOR 2				
C3308		CERAMIC CHIP		5%	50V	Q3308	8-129-422-21	TRANSISTOR 2	SD001A-Q	KS-1X		
C3309	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	Q3310	8-729-422-27	TRANSISTOR 2	SD601A-QI	RS-TX		
C3310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	Q3312	8-729-026-49	TRANSISTOR 2	SA1037AK	-T146-R		
C3313	1-163-038-91	CERAMIC CHIP	0.1MF		25V	Q3313	8-729-422-27	TRANSISTOR 2	SD601A-QI	RS-TX		
C3314		CERAMIC CHIP			25 V							
C3315		CERAMIC CHIP			16V			<resistor></resistor>				
C3319 C3320	1-163-031-11 1-126-960-11	CERAMIC CHIP	0.01MF 1MF	20%	50V 50V	D2201	1 216 075 00	METAL OLAGE	1077	5.01	1 (1 0111	
C3320	1-120-900-11	ELECT	IMIL	20%	30 v	R3301 R3302		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
C3321	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	R3303	1-216-295-91	CONDUCTOR, O	CHIP	570	1/10 W	
C3322		CERAMIC CHIP		5%	50V	R3304	1-216-043-91	METAL GLAZE	560	5%	1/10W	
C3323 C3324	1-163-031-11	CERAMIC CHIP	0.01MF 47MF	20%	50V 16V	R3306	1-215-882-00	METAL OXIDE	22	5%	2W	F
C3325		CERAMIC CHIP		20%	25V	R3307	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
						R3308	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
C3326 C3327		CERAMIC CHIP			25V	R3309		METAL GLAZE		5%	1/10W	
C3327	1-103-038-91	CERAMIC CHIP	0.1MF 47MF	20%	25V 16V	R3310 R3311		METAL GLAZE METAL GLAZE		5%	1/10W	
C3329	1-126-967-11		47MF	20%	16V	KJJII	1-210-069-11	METAL GLAZE	JYK	5%	1/10W	
C3330	1-163-031-11	CERAMIC CHIP	0.01MF		50V	R3312	1-216-037-00	METAL GLAZE	330	5%	1/10W	
C3331	1-126-967-11	ELECT	471AE	200	160	R3313		METAL GLAZE		5%	1/10W	
C3331	1-120-967-11		47MF 47MF	20% 20%	16V 25V	R3314 R3315		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
C3333		CERAMIC CHIP			50V	R3316		METAL GLAZE		5%	1/10W	
C3334		CERAMIC CHIP			50V	D0040						
C3335	1-163-038-91	CERAMIC CHIP	U.IMF		25V	R3319 R3321		METAL GLAZE		5%	1/10W	
C3336	1-163-038-91	CERAMIC CHIP	0.1MF		25V	R3322		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
C3337	1-164-005-11	CERAMIC CHIP	0.47MF		25V	R3323		METAL GLAZE		5%	1/10W	
C3338 C3340		CERAMIC CHIP		5%	50V	R3324	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
C3346		CERAMIC CHIP CERAMIC CHIP		5%	50V 50V	R3326	1-216-037-00	METAL GLAZE	330	5%	1/10W	
			10011	570	501	R3327		METAL GLAZE		5%	1/10W	
C3347	1-126-960-11		1MF	20%	50V	R3328		METAL GLAZE		5%	1/10W	
C3348 C3349	1-126-967-11	CERAMIC CHIP	47MF	20% 5%	16V 50V	R3329		METAL GLAZE		5%	1/10W	
C3350		CERAMIC CHIP		10%	25V	R3330	1-210-033-00	METAL GLAZE	270	5%	1/10W	
C3351		CERAMIC CHIP		5%	50V	R3331	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
						R3332		METAL GLAZE		5%	1/10W	
		<connector></connector>				R3337 R3338		METAL GLAZE METAL GLAZE		5%	1/10W	
		COMMECTOR				R3339		METAL GLAZE		5% 5%	1/10W 1/10W	
CN3301	* 1-764-816-11	CONNECTOR, B	OARD TO	BOARD	20P				170	5 70	1,1011	
						R3340		METAL GLAZE		5%	1/10W	
		<ic></ic>				R3341 R3342		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
					İ	R3343		METAL GLAZE		5%	1/10W	
IC3301		IC TDA8315T/N3	A-T			R3346		METAL GLAZE		5%	1/10W	
IC3302 IC3303	8-759-231-53 8-759-361-12	IC TA7805S IC SDA9288X			Ì	R3351	1 216 205 01	COMPLICATOR	er ren			
103303	0-137-301-12	IC 3DA3200A			•	K3331	1-210-293-91	CONDUCTOR, C	.HIP			



REF. NO.	PART NO.	DESCRIPTION]	REMARK	REF. NO.	PART NO.	DESCRIPTION		R	EMARK
R3352		METAL GLAZE		5%	1/10W	C119	1-163-227-11	CERAMIC CHIP	10 PF	0.5PF	50V
R3358 R3359	1-216-047-91	METAL GLAZE	820	5% 5%	1/10W 1/10W	C120		CERAMIC CHIP		0.5PF	50V
R3360		METAL GLAZE		5%	1/10W	C121 C124	1-163-031-11	CERAMIC CHIP	0.01MF	0.5PF	50V 50V
R3361 R3362	1-216-029-00	METAL GLAZE	150	5% 5%	1/10W 1/10W	C201 C203	1-126-960-11 1-126-935-11		1MF 470MF	20% 20%	50V 16V
R3363 R3364	1-216-035-00	METAL GLAZE METAL GLAZE	270	5% 5%	1/10W 1/10W	C204		CERAMIC CHIP		10%	25V
R3365		METAL GLAZE		5%	1/10W	C206 C207	1-164-004-11	CERAMIC CHIP	0.1MF	10% 10%	25V 25V
R3366 R3367	1-216-095-00	METAL GLAZE METAL GLAZE	82K	5% 5%	1/10W 1/10W	C208 C209	1-164-004-11 1-126-964-11	CERAMIC CHIP ELECT	0.1MF 10MF	10% 20%	25V 50V
R3368 R3369	1-216-101-00	METAL GLAZE METAL GLAZE	150K	5% 5%	1/10W 1/10W	C210	1-126-964-11		10MF	20%	50V
R3370		METAL GLAZE		5%	1/10W	C211 C212	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V
R3371 R3372	1-216-041-00	METAL GLAZE METAL GLAZE	470	5% 5%	1/10W 1/10W	C213 C216	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	50V 50V
R3373	1-216-035-00	METAL GLAZE	270	5%	1/10 W	C218		CERAMIC CHIP			50V
		<crystal></crystal>				C219 C220	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V
X3301		OSCILLATOR, C				C221 C223	1-164-004-11 1-126-964-11	CERAMIC CHIP ELECT	0.1MF 10MF	10% 20%	25V 50V
X3302	1-760-095-21	VIBRATOR, CRY	YSTAL			C224	1-104-664-11		47MF	20%	25V
						C226 C227		CERAMIC CHIP	10MF 0.1MF	20% 10%	50V 25V
******		******				C228 C229	1-104-664-11 1-126-964-11		47MF 10MF	20% 20%	25V 50V
	* A-1297-946-A	A BOARD, CO!		xcept K	P-46C36)	C230	1-126-964-11		10MF	20%	50V
	* A-1298-009-A	A BOARD, CO		CP-46C3	6 only)	C231 C232	1-126-933-11 1-164-004-11	ELECT CERAMIC CHIP	100MF 0.1MF	20% 10%	16V 25V
		******				C302 C303	1-126-959-11 1-163-031-11	ELECT CERAMIC CHIP	0.47MF 0.01MF	20%	50V 50V
	4-382-854-11	SCREW (M3X10)), P, SW (+))		C304	1-126-964-11		10MF	20%	50V
		<capacitor></capacitor>				C305 C308	1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1MF	5% 10%	50V 25V
C001		CERAMIC CHIP			50 V	C309 C310	1-126-933-11 1-163-133-00	ELECT CERAMIC CHIP	100MF 470PF	20% 5%	16V 50V
C002 C003	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V	C311		CERAMIC CHIP		5%	25V
C004 C005	1-126-933-11 1-126-964-11		100MF 10MF	20% 20%	16V 50V	C312 C313	1-126-959-11 1-137-399-11	FILM	0.47MF 0.1MF	20% 5%	50V 50V
C017		CERAMIC CHIP		10%	25V	C314 C315	1-137-399-11 1-137-399-11		0.1MF 0.1MF	5% 5%	50V 50V
C018 C019	1-126-960-11		1MF	5% 20%	50V 50V	C316		CERAMIC CHIP		10%	50V
C021 C024		CERAMIC CHIP CERAMIC CHIP		5% 10%	50V 25V	C317 C318	1-164-232-11	CERAMIC CHIP	0.01MF	10% 10%	50V 50V
C025		CERAMIC CHIP		200	50V	C319 C320	1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF	10% 10%	25V 25V
C026 C027	1-126-964-11 1-126-935-11	ELECT	10MF 470MF	20% 20%	50V 16V	C321	1-126-963-11		4.7MF	20%	50V
C028 C032	1-126-964-11 1-164-004-11	CERAMIC CHIP	10MF 0.1MF	20% 10%	50V 25V	C322 C323	1-130-495-00 1-137-581-11	FILM	0.1MF 0.1MF	5% 5%	50V 100V
C033 C034		CERAMIC CHIP		5%	50V	C324 C325	1-164-182-11	CERAMIC CHIP ELECT	0.0033MF 0.47MF	10% 20%	50V 50V
C035	1-104-664-11		47MF	10% 20%	25V 25V	C326	1-126-964-11		10MF	20%	50V
C036 C037		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	C327 C329	1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.0047MF		50V 50V
C038	1-126-960-11		1MF	20%	50V	C330 C331	1-163-263-11 1-126-959-11	CERAMIC CHIP ELECT	330PF 0.47MF	5% 20%	50V 50V
C045 C046	1-163-031-11	CERAMIC CHIP	0.01MF		50V 50V	C332		CERAMIC CHIP		10%	50V
C047 C048		CERAMIC CHIP CERAMIC CHIP		10%	50V 25V	C333 C334	1-163-275-11	CERAMIC CHIP	0.001MF	10% 5%	50V 50V
C054 C057		CERAMIC CHIP		£0/	50V	C335 C337	1-126-935-11 1-126-960-11		470MF 1MF	20% 20%	16V 50V
C057 C060 C092	1-163-038-91	CERAMIC CHIP	0.1MF	5%	50V 25V	C338	1-126-961-11		2.2MF	20%	50V
C107		CERAMIC CHIP CERAMIC CHIP		5%	50V 50V	C339 C342	1-126-959-11 1-137-399-11	FILM	0.47MF 0.1MF	20% 5%	50V 50V
C108	1-104-664-11		47MF	20%	25V	C344 C348	1-163-251-11 1-126-933-11	CERAMIC CHIP ELECT	100PF 100MF	5% 20%	50V 16V
C109 C110		CERAMIC CHIP		20% 5%	16V 50V	C349		CERAMIC CHIP		5%	50V
C111	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C401 C402 C403	1-126-964-11 1-126-964-11 1-137-367-11	ELECT	10MF 10MF 0.0033MF	20% 20% 5%	50V 50V 50V	C1517 C1518 C1519 C1520	1-126-964-11 1-126-933-11 1-126-933-11 1-126-964-11	ELECT ELECT	10MF 100MF 100MF 10MF	20% 20% 20% 20%	50V 16V 16V 50V
C404 C405 C406 C407 C408	1-137-367-11 1-137-399-11 1-137-399-11 1-126-960-11 1-137-367-11	FILM FILM ELECT	0.0033MF 0.1MF 0.1MF 1MF 0.0033MF	5% 5% 20%	50V 50V 50V 50V 50V	C1521 C1522 C1523 C1524	1-164-161-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.0022MF 0.1MF		50V 50V 25V 50V 100V
C409 C410 C411 C412 C413	1-137-367-11 1-137-399-11 1-137-399-11 1-126-933-11 1-128-551-11	FILM FILM ELECT	0.0033MF 0.1MF 0.1MF 100MF 22MF	5% 5% 5% 20% 20%	50V 50V 50V 16V 25V	C1601 C1602 C1603 C1604 C1605	1-126-933-11 1-126-964-11 1-126-916-11 1-126-934-11 1-163-031-11	ELECT	100MF 10MF 1000MF 220MF 0.01MF	20% 20% 20% 20%	16V 50V 6.3V 16V 50V
C414 C415 C416 C417 C418	1-163-038-91 1-126-964-11 1-126-964-11 1-126-964-11 1-104-664-11	ELECT ELECT	0.1MF 10MF 10MF 10MF 47MF	20% 20% 20% 20%	25V 50V 50V 50V 25V	C1606 C1607 C1608 C1609 C1610	1-163-031-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 0.01MF	20%	50V 50V 50V 50V 16V
C419 C420 C422 C424 C425	1-126-964-11 1-126-964-11 1-104-664-11 1-126-961-11 1-126-935-11	ELECT ELECT ELECT	10MF 10MF 47MF 2.2MF 470MF	20% 20% 20% 20% 20%	50V 50V 25V 50V 16V	C1611	1-163-031-11	<pre><filter block<="" pre=""></filter></pre>	0.01MF <>	B-4)	50V
C426 C427 C428	1-126-964-11 1-126-933-11 1-126-969-11	ELECT ELECT	10MF 100MF 220MF	20% 20% 20%	50V 16V 50V	CMISOT	1 400 102 01	<connector></connector>	•	J 1,	
C429 C430 C431	1-126-967-11 1-126-964-11 1-126-969-11	ELECT ELECT	47MF 10MF 220MF	20% 20% 20%	50V 50V 50V	CN001 CN002 CN003	* 1-564-511-11 * 1-774-183-11	PLUG, CONNEC PLUG, CONNEC CONNECTOR, B	TOR 8P OARD TO		
C432 C433 C434 C435	1-120-309-11 1-136-173-00 1-137-399-11 1-128-550-11 1-137-399-11	FILM FILM ELECT	0.47MF 0.1MF 2200MF 0.1MF	5% 5% 20% 5%	50V 50V 50V 50V	CN004 CN301 CN302 CN303	* 1-774-183-11 * 1-564-508-11	CONNECTOR, B CONNECTOR, B PLUG, CONNEC PLUG, CONNEC	OARD TO		
C436 C437 C440 C441	1-126-943-11 1-126-943-11 1-126-964-11 1-126-964-11	ELECT ELECT	2200MF 2200MF 10MF 10MF	20% 20% 20% 20%	25V 25V 50V 50V	CN305 CN401 CN402	1-573-298-21 * 1-564-507-11 * 1-564-506-11	CONNECTOR, B PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	OARD TO TOR 4P TOR 3P (40	6 C3 6 o	nly)
C1101 C1102 C1103 C1104 C1105 C1106	1-163-031-11 1-126-933-11	CERAMIC CHIP ELECT	0.01MF 100MF	20% 10% 20% 20%	50V 50V 16V 50V 50V 16V	CN1501 CN1601	*1-564-506-11 *1-774-183-11	PLUG, CONNECTOR, B CONNECTOR, B <diode></diode>	TOR 3P OARD TO	BOAR	D10P
C1107 C1108 C1109 C1110 C1111	1-104-664-11 1-126-964-11 1-126-933-11	ELECT ELECT ELECT CERAMIC CHIP	47MF 10MF 100MF	20% 20% 20%	25V 50V 16V 50V 50V	D001 D002 D003 D004 D007	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T- DIODE 1SS133T- DIODE 1SS133T- DIODE 1SS133T- DIODE RD5.6ES	-77 -77 -77		
C1112 C1113 C1114 C1115 C1116	1-126-964-11 1-163-031-11 1-163-031-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 0.01MF 0.01MF	20%	50V 50V 50V 50V 50V	D010 D202 D203 D206 D207	8-719-110-17 8-719-109-89 8-719-977-28 8-719-977-28	DIODE RD5.6ES DIODE RD10ESI DIODE RD5.6ES DIODE DTZ10B DIODE DTZ10B	32		
C1117 C1118 C1119 C1120 C1501	1-163-031-11 1-126-968-11 1-126-933-11		0.01MF 100MF 100MF	20% 20% 10%	50V 50V 50V 16V 50V	D208 D209 D210 D211 D212	8-719-977-28 8-719-977-28 8-719-977-28 8-719-977-28	DIODE DTZ10B DIODE DTZ10B DIODE DTZ10B DIODE DTZ10B			
C1502 C1503 C1506 C1507 C1508	1-107-504-11 1-136-177-00 1-126-969-11 1-163-243-11 1-137-378-11	FILM ELECT CERAMIC CHIP	10PF 1MF 220MF 47PF 0.22MF	0.5PF 5% 20% 5% 5%	500V 50V 50V 50V 50V	D213 D214 D215 D216 D217	8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17	DIODE DTZ10B DIODE RD10ESI DIODE RD10ESI DIODE RD10ESI DIODE RD10ESI	32 32 32		
C1509 C1510 C1511 C1513 C1514	1-126-942-61 1-126-942-61 1-163-031-11		1000MF 1000MF 0.01MF	5% 20% 20%	50V 25V 25V 50V 50V	D218 D219 D220 D221 D222	8-719-110-17 8-719-110-17 8-719-110-17 8-719-110-17	DIODE RD10ESI DIODE RD10ESI DIODE RD10ESI DIODE RD10ESI	B2 B2 B2 B2		
						D225	0-117-110-1/	DIODE RD10ESI	U 4		



Les composants identifies par une trame et une marque 🐧 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

A				7.	Ne les remplace piece portant le n	umero specifie.	Replace only with part number specified.
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D226 D232 D236 D237	8-719-982-26 8-719-110-17	DIODE RD10ESB2 DIODE MTZJ-33B DIODE RD10ESB2 DIODE RD10ESB2		L1104 L1105 L1106 L1501	1-410-470-11 1-410-478-11	INDUCTOR 47 INDUCTOR 10 INDUCTOR 47 INDUCTOR 8.2	UH UH
D238 D239 D240 D241 D303	8-719-991-33 8-719-991-33 8-719-991-33	DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77		L1502 L1503		INDUCTOR 47 INDUCTOR 47 <neon lamp<="" td=""><td>UH</td></neon>	UH
D305 D401 D402 D403	8-719-110-17 8-719-991-33 8-719-991-33	DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE MTZJ-33B		NL1501	1-519-108-99	LAMP, NEON	
D403 D405 D406 D408	8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77		PS401	1-532-984-11	LINK, IC (2A/9	00V)
D410 D1101	8-719-982-26 8-719-982-26	DIODE MTZJ-33B DIODE MTZJ-33B				<transistor< td=""><td></td></transistor<>	
D1102 D1103 D1104 D1105	8-719-977-28 8-719-977-28 8-719-977-28	DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only)		Q001 Q002 Q003 Q004 Q005	8-729-027-38 8-729-027-38 8-729-216-22	TRANSISTOR	
D1106 D1107 D1501 D1502	8-719-977-28 8-719-109-89	DIODE DTZ10B (46C36 only) DIODE DTZ10B (46C36 only) DIODE RD5.6ESB2 DIODE GP08D		Q006 Q007 Q008 Q009 Q013	8-729-027-59 8-729-422-27 8-729-027-38	TRANSISTOR TRANSISTOR TRANSISTOR	DTA144EKA-T146 DTC144EKA-T146 2SD601A-QRS-TX DTA144EKA-T146 2SD601A-QRS-TX
FB1102	1-414-135-11	<ferrite bead=""> INDUCTOR CHIP 0UH</ferrite>		Q015 Q016 Q017 Q201 Q206	8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR TRANSISTOR TRANSISTOR	2SD601A-QRS-TX 2SD601A-QRS-TX 2SD601A-QRS-TX 2SD601A-QRS-TX DTC143TKA-T146
		<ic></ic>		Q207			DTC144EKA-T146
IC001 IC002 IC003 IC004 IC007	8-752-861-57 8-759-352-91 8-759-352-91	IC CXP85856-008S IC CXP85112B-613S IC PST9143NL IC PST9143NL IC X24C04S8		Q209 Q213 Q214 Q216	8-729-027-56 8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR	DTC143TKA-T146 2SA1162-G
IC201	8-752-076-76 8-759-369-39	IC MM1313AD IC CXA2025AS IC BH3856FS-E2 IC uPC4558G2 IC TDA7262		Q217 Q218 Q219 Q220 Q226	8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR TRANSISTOR TRANSISTOR	DTC143TKA-T146 2SD601A-QRS-TX 2SD601A-QRS-TX 2SD601A-QRS-TX 2SD601A-QRS-TX
IC1501 IC1502 IC1601 IC1602	8-759-192-71 8-759-251-31	IC STV9379 IC CA0007AM IC PQ09RF21		Q301 Q302 Q303 Q304 Q305	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR	
		<jack></jack>		Q306 Q307	8-729-422-27	TRANSISTOR TRANSISTOR	2SD601A-QRS-TX
J203 J205 J206		JACK, MIC JACK BLOCK, PIN JACK BLOCK, PIN		Q308 Q311 Q312	8-729-422-27		2SA1162-G 2SD601A-QRS-TX 2SD601A-QRS-TX
J208 J209	1-774-749-11	JACK BLOCK, PIN TERMINAL BLOCK, S		Q313 Q314 Q402 Q403	8-729-422-27 8-729-027-59	TRANSISTOR TRANSISTOR	2SD601A-QRS-TX 2SD601A-QRS-TX DTC144EKA-T146 DTA144EKA-T146
		<coil></coil>		Q405		TRANSISTOR	
L002 L003 L004 L005 L006	1-410-482-31 1-216-295-91 1-216-295-91	INDUCTOR 100UH INDUCTOR 100UH CONDUCTOR, CHIP CONDUCTOR, CHIP INDUCTOR 10UH		Q406 Q408 Q409 Q410 Q411	8-729-027-56 8-729-027-56 8-729-027-56	TRANSISTOR TRANSISTOR	2SA1162-G DTC143TKA-T146 DTC143TKA-T146 DTC143TKA-T146 DTC143TKA-T146
L007 L201 L302 L303 L1101	1-410-478-11 1-410-482-31 1-410-470-11	INDUCTOR 100UH INDUCTOR 47UH INDUCTOR 100UH INDUCTOR 10UH INDUCTOR 47UH		Q1101 Q1501 Q2105 Q2106	8-729-422-27 8-729-422-27	TRANSISTOR TRANSISTOR	DTC144EKA-T146 2SD601A-QRS-TX 2SD601A-QRS-TX 2SD601A-QRS-TX
L1103	1-410-478-11	INDUCTOR 47UH					



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
		<resistor></resistor>			R074 R075		METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W
R003 R004		CONDUCTOR, CHIP METAL GLAZE 220	5%	1/10W	R076	1-216-033-00	METAL GLAZE 220	5%	1/10W
R005	1-216-033-00	METAL GLAZE 220	5%	1/10W	R077		METAL GLAZE 1M METAL GLAZE 100K	5% 5%	1/10W 1/10W
R006 R007		METAL GLAZE 220 METAL GLAZE 22K	5% 5%	1/10W 1/10W	R078 R080	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R008	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R081 R084		METAL GLAZE 220 METAL GLAZE 10K	5% 5%	1/10W 1/10W
R009 R010	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R085	1-216-097-91	METAL GLAZE 100K	5%	1/10W
R011	1-216-033-00	METAL GLAZE 220	5%	1/10W 1/10W	R086	1-216-033-00	METAL GLAZE 220 METAL GLAZE 10K	5% 5%	1/10W 1/10 W
R012		METAL GLAZE 220	5%		R087 R088	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R013 R014		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R090	1-216-065-00	METAL GLAZE 4.7K	5%	1/10 W
R015	1-216-025-91	METAL GLAZE 100 METAL GLAZE 100	5% 5%	1/10W 1/10W	R091 R092		METAL GLAZE 2.2K METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
R016 R017		METAL GLAZE 100 METAL GLAZE 4.7K	5%	1/10W	R099	1-216-037-00	METAL GLAZE 330	5%	1/10W 1/10W
R018	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R111 R112		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W
R019 R020		METAL GLAZE 100K METAL GLAZE 2.2K	5% 5%	1/10W 1/10W	R113	1-216-033-00	METAL GLAZE 220	5%	1/10W
R021	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R115	1-216-033-00	METAL GLAZE 220	5%	1/10W
R023	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R117 R118	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
R024 R025		METAL GLAZE 1M METAL GLAZE 100K	5% 5%	1/10W 1/10W	R119	1-216-033-00	METAL GLAZE 220	5%	1/10W
R026	1-216-033-00	METAL GLAZE 220	5%	1/10W	R120		METAL GLAZE 220	5%	1/10W 1/10W
R027 R028		METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R121 R122	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W
R030		METAL GLAZE 10K	5%	1/10W	R123 R124		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
R031	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	1		METAL GLAZE 220	5%	1/10W
R032 R033		METAL GLAZE 10K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R125 R127	1-216-033-00	METAL GLAZE 220	5%	1/10W
R034	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R128 R131) METAL GLAZE 220) METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
R035		METAL GLAZE 4.7K METAL GLAZE 220	5% 5%	1/10W 1/10W	R132	1-216-065-00	METAL GLAZE 4.7K	5%	1/10 W
R036 R037	1-216-033-00	METAL GLAZE 220	5%	1/10W	R133		METAL GLAZE 4.7K	5%	1/10W 1/10W
R038 R039		METAL GLAZE 47K METAL GLAZE 47K	5% 5%	1/10W 1/10W	R147 R148	1-216-057-00) METAL GLAZE 2.2K) METAL GLAZE 2.2K	5% 5%	1/10W
R040	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R149 R154		METAL GLAZE 2.2K METAL GLAZE 100	5% 5%	1/10W 1/10W
R041	1-216-025-91	METAL GLAZE 100	5%	1/10W 1/10W	R155		METAL GLAZE 100	5%	1/10W
R042 R043	1-216-065-00	METAL GLAZE 47K METAL GLAZE 4.7K	5% 5%	1/10W	R156	1-216-113-00	METAL GLAZE 470K	5%	1/10W
R044	1-216-073-00	METAL GLAZE 10K	5%	1/10W	R157		METAL GLAZE 47 METAL GLAZE 470K	5% 5%	1/10W 1/10W
R045 R046		METAL GLAZE 10K METAL GLAZE 1K	5% 5%	1/10W 1/10W	R159	1-216-017-91	METAL GLAZE 47	5%	1/10W
R047	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R160		METAL GLAZE 470K	5%	1/10W 1/10W
R048 R049) METAL GLAZE 4.7K METAL GLAZE 47K	5% 5%	1/10W 1/10W	R161 R163	1-216-033-00	METAL GLAZE 47 METAL GLAZE 220	5% 5%	1/10W
R050	1_216_073_00) METAL GLAZE 10K	5%	1/10W	R164 R165) METAL GLAZE 220) METAL GLAZE 220	5% 5%	1/10W 1/10W
R051	1-247-807-31	CARBON 100	5%	1/4W 1/4W	R171) METAL GLAZE 270	5%	1/10W
R052 R053		METAL GLAZE 1K	5% 5%	1/10W	R172	1-216-035-00	METAL GLAZE 270	5%	1/10W
R054	1-216-033-00) METAL GLAZE 220	5%	1/10W	R173 R204	1-249-377-11		5% 5%	1/10W 1/4W F
R055 R056) METAL GLAZE 220 METAL GLAZE 1M	5% 5%	1/10W 1/10W	R206	1-216-022-00	METAL GLAZE 75	5%	1/10W
R057	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R213		METAL GLAZE 470K	5% 5%	1/10W 1/10W
R058 R059		METAL GLAZE 1K METAL GLAZE 220	5% 5%	1/10W 1/10W	R214 R215	1-216-113-00) METAL GLAZE 470K) METAL GLAZE 470K	5%	1/10W
R060) METAL GLAZE 220	5%	1/10W	R216 R217) METAL GLAZE 470K) METAL GLAZE 470K	5% 5%	1/10W 1/10W
R061	1-216-049-91	METAL GLAZE 1K	5%	1/10W	1	1-216-022-0) METAL GLAZE 75	5%	1/10W
R063 R064	1-216-049-9) METAL GLAZE 10K I METAL GLAZE 1K	5% 5%	1/10W 1/10W	R218 R219	1-216-113-0	METAL GLAZE 470K	5%	1/10W
R065	1-216-049-9	METAL GLAZE 1K	5%	1/10W	R220 R221	1-216-113-0 1-216-022-0	O METAL GLAZE 470K O METAL GLAZE 75	5% 5%	1/10W 1/10W
R066		METAL GLAZE 1K METAL GLAZE 220	5% 5%	1/10W 1/10W	R222		0 METAL GLAZE 75	5%	1/10W
R067 R068	1-216-033-0) METAL GLAZE 220	5%	1/10W	R223		0 METAL GLAZE 75	5%	1/10W
R070 R071		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R224 R225	1-216-057-0	1 METAL GLAZE 47 0 METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
R072) METAL GLAZE 220	5%	1/10W	R227 R229		0 METAL GLAZE 56 1 METAL GLAZE 1K	5% 5%	1/10W 1/10W
R073		0 METAL GLAZE 220	5%	1/10W	İ				



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		F	REMARK
R230	1-216-113-00	METAL GLAZE	470K 5	%	1/10W	R333	1-208-810-11	METAL GLAZE	15K	0.50%	1/10W
R231		METAL GLAZE		% az	1/10W 1/10W	R334	1-216-043-91	METAL GLAZE	560	5%	1/10W
R235 R236		METAL GLAZE METAL GLAZE		% %	1/10W	R335	1-216-033-00	METAL GLAZE	220	5%	1/10W
R241		METAL GLAZE		%	1/10W	R337	1-216-033-00	METAL GLAZE	220	5%	1/10W
R245	1-216-041-00	METAL GLAZE	470 5	%	1/10W	R338 R339		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R255		METAL GLAZE		<i>7</i> 0 %	1/10W	R340		METAL GLAZE		5%	1/10W
R258	1-216-089-91	METAL GLAZE	47K 5	%	1/10W	2010	1 01 4 00 5 01		100		4 (4 0 7 7 7
R260 R261		METAL GLAZE METAL GLAZE		% %	1/10W 1/10W	R342 R343		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
K201	1-210-005-00	WIETAL GLAZE	4.7K	70	1/101/	R344		METAL GLAZE		5%	1/10W
R262	1-216-095-00	METAL GLAZE	82K 5	%	1/10W	R345		METAL GLAZE		5%	1/10W
R263	1-216-095-00	METAL GLAZE	82K 5	% (4	46C36 only) 1/10W	R346	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R264		METAL GLAZE		%	1/10W	R347	1-216-049-91	METAL GLAZE	1 K	5%	1/10W
R265		METAL GLAZE		% a	1/10W	R348		METAL GLAZE		5%	1/10W
R266	1-210-037-00	METAL GLAZE	2.2K 3	%	1/10W	R349 R350		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R268		METAL GLAZE		%	1/10W	R351		METAL GLAZE		5%	1/10W
R274 R275		METAL GLAZE METAL GLAZE		% %	1/10W 1/10W	R352	1-216-050-00	METAL GLAZE	278	5%	1/10W
R275		METAL GLAZE		70 %	1/10W	R353		METAL GLAZE		5%	1/10W
R277		METAL GLAZE		%	1/10W	R354	1-216-073-00	METAL GLAZE	10 K	5%	1/10W
R278	1 216 025 01	METAL GLAZE	100 50	%	1/10W	R355 R356		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R279		METAL GLAZE		70 %	1/10W	K330	1-210-025-91	METAL GLAZE	100	370	1/10 W
R280	1-216-041-00	METAL GLAZE	470 5	%	1/10W	R357		METAL GLAZE		5%	1/10W
R281	1-216-041-00	METAL GLAZE	470 50	% (²	46C36 only) 1/10W	R358 R359		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
11201	1-210-041-00	METAL GLAZE	470 3		46C36 only)	R360		METAL GLAZE		5%	1/10W
R282	1-216-041-00	METAL GLAZE	470 5	%	1/10W	R361	1-216-041-00	METAL GLAZE	470	5%	1/10W
				(4	46C36 only)	R362	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R283	1-216-041-00	METAL GLAZE	470 59		1/10W	R363		METAL GLAZE		5%	1/10W
D004	1 016 041 00	METAL OF AGE	470 5		46C36 only)	R364		METAL GLAZE		0.50%	1/10W
R284	1-210-041-00	METAL GLAZE	470 5		1/10W 46C36 only)	R365 R366		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R285	1-216-041-00	METAL GLAZE	470 5	% `	1/10W						
R286	1-216-025-01	METAL GLAZE	100 50	(4 %	46C36 only) 1/10W	R367 R368		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R287		METAL GLAZE		ж %	1/10W	R369		METAL GLAZE		5%	1/10W
2000			400			R370		METAL GLAZE		5%	1/10W
R288 R289		METAL GLAZE METAL GLAZE		% %	1/10W 1/10W	R371	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R290		METAL GLAZE			1/10W	R372	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R291		METAL GLAZE		% ~	1/10W	R373		METAL GLAZE		5%	1/10W
R294	1-216-043-91	METAL GLAZE	560 5	%	1/10W	R374 R375		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R295	1-216-073-00	METAL GLAZE	10K 5	%	1/10W	R376		METAL GLAZE		5%	1/10W
R296		METAL GLAZE			1/10W	D.000	1 01 6 070 00		1077		1 /1 0777
R297 R299	1 01/ 04/ 00	METAL GLAZE METAL GLAZE	450 5		1/10W 1/10W	R377 R378	1 01/ 050 00	METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R301		METAL GLAZE		%	1/10W	R379		METAL GLAZE		5%	1/10W
R302	1 216 040 01	METAL GLAZE	1V 50	nt.	1/1007	R380		METAL GLAZE		5%	1/10W
R302		METAL GLAZE	_	70 %	1/10W 1/10W	R381	1-210-097-91	METAL GLAZE	100K	5%	1/10W
R304		METAL GLAZE	1K 5	%	1/10W	R384	1-249-377-11		0.47	5%	1/4W F
R305 R306		METAL GLAZE METAL GLAZE		% %	1/10W 1/10W	R401 R406	1-249-377-11	CARBON METAL GLAZE	0.47	5% 5%	1/4W F 1/10W
NJOU	1-210-041-00	METAL GLAZE	470 3	N	1/10**	R407		METAL GLAZE		5%	1/10W
R307		METAL GLAZE			1/10W	R408		METAL GLAZE		5%	1/10W
R308 R309		METAL GLAZE METAL GLAZE			1/10W 1/10W	R412	1.216.072.00	METAL GLAZE	101/	5%	1/10W
R310	1-216-017-91	METAL GLAZE	47 59		1/10W	R413		METAL GLAZE		5%	1/10W
R314	1-216-033-00	METAL GLAZE	220 5	%	1/10W	R414		METAL GLAZE		5%	1/10W
R315	1-216-033-00	METAL GLAZE	220 59	%	1/10W	R415 R416		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R319	1-216-033-00	METAL GLAZE	220 59	%	1/10W					5 70	471011
R320		METAL GLAZE			1/10W	R418		METAL GLAZE		5%	1/10W
R322 R323		METAL GLAZE METAL GLAZE			1/10W 1/10W	R423 R424		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
						R425	1-216-041-00	METAL GLAZE	470	5%	1/10W
R324		METAL GLAZE			1/10W	R427	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R325 R326		METAL GLAZE METAL GLAZE		% .50%	1/10W 1/10W	R428	1-216-049-91	METAL GLAZE	1 K	5%	1/10W
R327	1-216-049-91	METAL GLAZE	1K 5	%	1/10W	R429	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R328	1-216-049-91	METAL GLAZE	1K 59	%	1/10W	R430 R432		METAL GLAZE		5%	1/10W
R330	1-216-025-91	METAL GLAZE	100 5	%	1/10W	R432 R433		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R331	1-216-025-91	METAL GLAZE	100 5	%	1/10W						
R332	1-216-035-00	METAL GLAZE	270 5	%	1/10W	R434	1-216-075-00	METAL GLAZE	12 K	5%	1/10W

The componants identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ∆ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

• The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.



2443040	DART NO			· .	ally used.	DADTNO	DECORPTION			EL (A DIZ
REF. NO.	FARI NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		-	EMARK
R435 R436 R437 R438				1/10W 1/4W F			G BOARD, CO	*****		
R439 R440	1-249-389-11 1-249-389-11	CARBON 4	.7 5% .7 5%	1/4W F			**************************************	*******		,,01033)
R441 R442 R443	1-216-073-00 1-216-025-91	METAL GLAZE 1 METAL GLAZE 1 CONDUCTOR, CH	0K 5% 00 5%	1/10W		4-382-854-11	SCREW (M3X10 SCREW +PSW 3), P, SW (+)		
R444		CONDUCTOR, CH		1.41.0337			<capacitor></capacitor>			
R1101 R1102 R1103	1-216-083-00 1-216-689-11	METAL GLAZE 4 METAL GLAZE 2 METAL GLAZE 3	7K 5% 9K 5%	1/10W 1/10W	C502 C504	1-126-959-11 1-102-116-00	CERAMIC	0.47MF 680PF	20% 10%	50V 50V
R1104 R1105	1-216-689-11	METAL GLAZE 3	9K 5%	1/10W	C505 C506 C507	1-130-471-00 1-126-933-11 1-126-965-11	ELECT	0.001MF 100MF 22MF	5% 20% 20%	50V 16V 50V
R1106 R1107	1-216-065-00	METAL GLAZE 2 METAL GLAZE 4	.7K 5%	1/10W	C508	1-102-212-00		820PF	10%	500V
R1108 R1501	1-216-354-11	METAL OXIDE 2 METAL OXIDE 2	2.7 5%	1W F	C509 C510 C511	1-106-383-00 1-102-002-00 1-130-475-00	CERAMIC MYLAR	680PF 0.0022MF		200V 500V 50V
R1502 R1504		METAL GLAZE 1 METAL GLAZE 1	0K 5%	1/10W	C512	1-130-471-00		0.001MF	5%	50V
R1506 R1507		METAL OXIDE 2 METAL GLAZE 2			C513	1-126-965-11 ▲	CERAMIC	22MF	20%	50V 2KV
R1508	1-249-383-11		.5 5%	1/4W F		Δ1-136-334-91 Δ1-136-084-11	FILM FILM	0.033MF 0.0145MF	5%	630V 2KV
R1509		METAL GLAZE 1			C518	1-130-495-00		0.1MF	5%	50V
R1510 R1511	1-216-057-00	METAL GLAZE 1 METAL GLAZE 2	.2K 5%	1/10W	C519	1-106-359-00		0.0047MF		100V
R1518 R1520		METAL OXIDE 2 METAL GLAZE 4			C520 C521	1-162-116-00 1-162-116-00		680PF 680PF	10% 10%	2KV 2KV
R1522	1_216_080_01	METAL GLAZE 4	7K 5%	1/10W	C523 C524	1-113-506-11 1-106-359-00		0.75MF 0.0047MF	5% 10%	200V 100V
R1523	1-216-073-00	METAL GLAZE 1	0K 5%	1/10W						
R1524 R1525	1-216-097-91		0K 1%	1/4W	C526 C527	1-102-228-00 1-126-967-11	ELECT	470PF 47MF	10% 20%	500V 50V
R1526	1-215-456-00	METAL 3	0K 1%	1/4W	C528 C529	1-107-649-11 1-136-541-11		2.2MF 1.5MF	20% 5%	250V 200V
R1527		METAL GLAZE 1			C530	1-110-626-11		330MF	20%	160V
R1528 R1529	1-216-025-91	METAL GLAZE 1	00 5%	1/10 W	C531	1-126-971-11		470MF	20%	50V
R2106 R2109		METAL GLAZE 1 METAL GLAZE 4			C532 C533	1-126-971-11 1-128-562-11		470MF 47MF	20% 20%	50V 100V
R2110	1-216-073-00	METAL GLAZE 1	0K 5%	1/10W	C535 C536	1-106-387-00 1-137-374-11		0.068MF 0.047MF	10% 5%	200V 50V
R2111	1-216-089-91	METAL GLAZE 4	7K 5%	1/10W						
R2112 R2201	1-216-041-00	METAL GLAZE 4 METAL GLAZE 4	70 5%	1/10W	C537 C538	1-126-968-11 1-126-968-11	ELECT	100MF 100MF	20% 20%	50V 50V
R2202	1-216-041-00	METAL GLAZE 4	70 5%	1/10W	C539 C540	1-162-114-00 1-130-487-00		0.0047MF 0.022MF		2KV 50V
R2203 R2204		METAL GLAZE 1 METAL GLAZE 6			C541	1-130-489-00			5%	50V
R2205	1-216-041-00	METAL GLAZE 4	70 5%	1/10W	C542	1-126-969-11		220MF	20%	50V
R2208 R2209		METAL GLAZE 4 METAL GLAZE 4			C544 C545	1-104-665-11 1-104-665-11	ELECT	100MF 100MF	20% 20%	25V 25V
					C546 C548	1-107-637-11 1-102-244-00		22MF 220PF	20% 10%	160V 500V
		<thermistor></thermistor>			C550	1-126-935-11	FLECT	470MF	20%	16V
TH1501	1-800-193-00	THERMISTOR			C551 C554 C555	1-126-935-11 1-136-557-11 1-126-960-11	ELECT FILM	470MF 0.0033MF 1MF	20%	16V 630V 50V
		<tuner></tuner>			C556	1-130-495-00		0.1MF	5%	50V
TU110172	38-598-340-00	TUNER BTF-WA4	04	Hel iniya			CERAMIC			250Y
TU1102 Z	L 8-598-339-00	TUNER BTF-LA40	12 (10 10 5)		C603 C604	1-102-228-00 ▲ 1-136-311-51		470PF 0.47MF	10% 20%	500V 125V
		<crystal></crystal>				Δ1-113-890-51 Δ1-136-311-51		0.0022MF 0.47MF		250V 125V
X001	1-577-358-21	VIBRATOR, CERA	AMIC		C607	1-125-692-11	ELECT(BLOCK)	820MF	20%	200V
X002 X301	1-578-774-11	VIBRATOR, CRYS	STAL		C608 C612		ELECT(BLOCK)		20% 10%	200V 500V
X304		OSCILALTOR, CE			C615	1-136-173-00	FILM	0.47MF	5%	50V
					C616	1-136-173-00		0.47MF	5%	50V
*****	*****	******	*****	*****	C617 C618	1-136-169-00 1-136-169-00		0.22MF 0.22MF	5% 5%	50V 50V
					C621	1-129-719-00		0.027MF	5%	630V



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The componants identified by shading and mark ≜ are critical for safety.

Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.		DESCRIPTION	r6 13 (20 10 AREA		REMARK
C651 C652	1-126-804-11 1-123-024-21		100MF 33MF	20%	35V 160V	C854 C857 C858	1-126-933-11 1-126-933-11 1-104-665-11	ELECT	100MF 100MF 100MF	20% 20% 20%	16V 16V 25V
C653	1-104-652-11		470MF	20%	10V	C860	1-126-933-11		100MF	20%	16 V
C654 C655	1-104-652-11 1-126-943-11		470MF 2200MF	20% 20%	10V 25V	C861	1-137-374-11	FILM	0.047MF	5%	50V
C656	1-126-943-11	ELECT	2200MF	20%	25V	C862	1-137-374-11	FILM	0.047MF	5%	50V
C657	1-126-943-11	ELECT	2200MF	20%	25V	C863 C864	1-137-374-11 1-126-933-11		0.047MF 100MF	5% 20%	50V 16V
C658	1-128-550-11			20% 10%	50V 50V	C865	1-130-471-00	MYLAR	0.001MF	5%	50V
C659 C660	1-102-074-00 1-126-235-11		0.001MF 100MF	20%	6.3V	C866	1-136-177-00	FILM	1MF	5%	50V
C661 C662	1-102-074-00 1-104-664-11		0.001MF 47MF	10% 20%	50V 25V	C867 C868	1-101-880-00 1-101-880-00		47PF 47PF	5% 5%	50V 50V
						C869	1-130-489-00	MYLAR	0.033MF	5%	50V
C663 C664	1-104-664-11 1-104-664-11		47MF 47MF	20% 20%	25V 25V	C871	1-101-880-00	CERAMIC	47PF	5%	50V
C665	1-104-666-11	ELECT	220MF	20%	25V	C872	1-101-880-00		47PF	5%	50V
C666 C671	1-126-960-11 1-104-664-11		1MF 47MF	20% 20%	50V 25V	C873 C880	1-101-880-00 1-126-961-11		47PF 2.2MF	5% 20%	50V 50V
			470ME	20%	50V	C881 C882	1-102-973-00 1-102-973-00		100PF 100PF	5% 5%	50V 50V
C672 C673	1-126-971-11 1-164-644-11		470MF 330PF	10%	500V	į					
C675 C676	1-104-665-11 1-126-960-11	ELECT	100MF 1MF	20% 20%	25V 50V	C883 C884	1-102-973-00 1-104-665-11		100PF 100MF	5% 20%	50V 25V
C801	1-104-665-11		100MF	20%	25V	C885	1-126-961-11	ELECT	2.2MF	20%	50V
C802	1-104-665-11	FLECT	100MF	20%	25V	C886 C887	1-102-973-00 1-102-973-00		100PF 100PF	5% 5%	50V 50V
C803	1-126-934-11	ELECT	220MF	20%	16V	•					
C804 C805	1-126-934-11 1-126-934-11		220MF 220MF	20% 20%	16V 16V	C888 C889	1-102-973-00 1-104-665-11		100PF 100MF	5% 20%	50V 25V
C806	1-126-934-11		220MF	20%	16 V	C897	1-104-665-11		100MF	20%	25V
C807	1-137-374-11	FILM	0.047MF	5%	50V						
C808 C809	1-137-374-11 1-137-374-11		0.047MF 0.047MF	5% 5%	50V 50V			<connector:< td=""><td>•</td><td></td><td></td></connector:<>	•		
C810	1-137-374-11	FILM	0.047MF	5%	50V	CN501		PLUG, CONNEC			_
C811	1-137-366-11	FILM	0.0022MF	5%	50V	CN502 CN503		PIN, CONNECTOR PIN, CONNECTOR			
C812	1-136-169-00		0.22MF	5%	50V	CN504	* 1-580-689-11	PIN, CONNECT	OR (PC BO		
C813 C815	1-137-374-11 1-104-665-11		0.047MF 100MF	5% 20%	50V 25V	CN505	* 1-506-371-00	PIN, CONNECT	OR 2P		
C816	1-126-964-11	ELECT	10MF 100MF	20% 20%	50V 16V	CN506 CN507		CONNECTOR, I		BOARI	D10P
C818	1-126-933-11	ELECT				CN601	*1-580-843-11	PIN, CONNECT	OR (POWE		
C819 C820	1-126-964-11 1-102-114-00		10MF 470PF	20% 10%	50V 50V	CN651 CN652		CONNECTOR, I			
C821	1-130-495-00	MYLAR	0.1 MF	5%	50V						
C823 C825	1-101-880-00 1-104-665-11		47PF 100MF	5% 20%	50V 25V	CN653 CN801		PIN, CONNECTOR PLUG, CONNECTOR		(ARD) 3	r
				5%	50V	CN802 CN803		PLUG, CONNEC			
C826 C827	1-136-165-00 1-126-960-11		0.1MF 1MF	20%	50V	CN804		CONNECTOR, I		BOARI	D10P
C828 C829	1-137-366-11 1-126-959-11		0.0022MF 0.47MF	5% 20%	50V 50V	CN805	*1-691-134-11	PIN, CONNECT	OR (PC BO	ARD) 2	P
C830	1-130-467-00		470PF	5%	50V	CINOUS	1-071-154-11	Thi, connect	OR (I C BC	14(15) 2.	•
C831	1-126-960-11	ELECT	1MF	20%	50V			<diode></diode>			
C832 C833	1-126-960-11 1-126-960-11	ELECT	1MF 1MF	20% 20%	50V 50V	D501	9 710 001 22	DIODE 1SS133T	ירי י		
C834	1-126-968-11		100MF	20%	50V	D502	8-719-991-33	DIODE 1SS133T	-77		
C835	1-126-967-11	ELECT	47MF	20%	50V	D504	8-719-921-63 A 8-719-302-43	DIODE EL1Z	5B	. 41.38	Compt (SELE
C836	1-136-169-00		0.22MF	5%	50V	D508	8-719-900-26	DIODE ERD29-0)8J		
C837 C838	1-126-963-11 1-104-665-11		4.7MF 100MF	20% 20%	50V 25V	D509	8-719-945-80	DIODE ERC06-1	15S		
C839	1-137-374-11	FILM	0.047MF	5%	50V	D510 D511		DIODE ERC06-1 DIODE EL1Z	15S		
C840	1-104-665-11	ELECT	100MF	20%	25V	D513	8-719-302-43	DIODE EL1Z			
C841 C842	1-137-374-11 1-137-374-11		0.047MF 0.047MF	5% 5%	50V 50V	D514	8-719-908-03	DIODE GP08D			
C843	1-126-968-11	ELECT	100MF	20%	50V	D515		DIODE GP08D	NOTES - 400 *		
C844 C845	1-126-933-11 1-126-933-11		100MF 100MF	20% 20%	16V 16V	D517 D519		DIODE RGP02-2 DIODE 1SS1337			
						D520	8-719-302-43	DIODE EL1Z			
C846 C847	1-126-933-11 1-126-933-11		100MF 100MF	20% 20%	16V 16V	D521		DIODE EL1Z			
C848 C851	1-126-933-11 1-137-374-11	ELECT	100MF 0.047MF	20% 5%	16V 50V	D524 D527	8-719-991-33 8-719-109-95	DIODE 1SS1337 DIODE RD5.1ES	T-77 SR2		
C851 C852	1-137-374-11		0.047MF 0.047MF	5%	50 V	D528	8_710_023_86	DIODE MT71-T	-77-15		a til e e
C853	1-137-374-11	FILM	0.047MF	5%	50V	D602 D651		DIODE LN4SB6 DIODE D1NL20		Winds State	and Millian
C033	1 15, 5,4-11		J.J 1717II	2 ,0	-0.	1	5 . 0 0				

Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION REMARK	REF. NO.	PART NO.	DESCRIPTION		1	REMARK	
D652 D653	8-719-510-02	DIODE 1SS133T-77 DIODE D1NS4	IC803 IC804		IC CA0007AD IC PM0011AS		•		
D654 D655 D656	8-719-061-56	DIODE D2S4MF DIODE RBA-402LLF-A DIODE D10SBS4F	IC805 IC806	8-759-464-79	IC NJM2058D IC PM0011AS				
D657 D658 D659	8-719-510-12	DIODE D4SBS4-F DIODE D10SC4M	IC808 IC809 IC810	8-749-012-97	IC PM0011AS IC STK392-110 IC STK392-110				
D660 D661	8-719-991-33	DIODE RD5.1F-T7B1 DIODE 1SS133T-77 DIODE 11ES2	IC811	8-759-634-51	IC M5218AP				
D662 D664 D669	8-719-110-61	DIODE 1SS133T-77 DIODE RD24ESB1 DIODE 1SS133T-77	L502	1-410-478-11	<coil></coil>	īН			
D670 D691	8-719-921-86	DIODE MTZJ-13 DIODE 11ES2	L503 L506 L509	1-459-111-00 1-412-552-11 1-412-533-21	COIL, DRAM CO INDUCTOR 2.21 INDUCTOR 47U	ORE (CDI) nH IH			
D692 D693	8-719-200-82	DIODE 11ES2 DIODE 11ES2	L601	Δ1-424-248-11	TRANSFORME	R. LINE FIL	TER		30
D694 D801 D802	8-719-110-17	DIODE 11ES2 DIODE RD10ESB2 DIODE RD10ESB2	L651 L652 L653	1-414-158-11	INDUCTOR 2.20 INDUCTOR 2.20 INDUCTOR 2.20	UH			
D803	8-719-110-17	DIODE RD10ESB2	L654 L656	1-414-158-11	INDUCTOR 2.20 INDUCTOR 6.80	U H			
D804 D820 D828 D829	8-719-109-68 8-719-109-89	DIODE RD10ESB2 DIODE RD3.6ESB1 DIODE RD5.6ESB2 DIODE RD5.1ESB1	L801 L802		COIL, CHOKE 4 COIL, CHOKE 4				
D835 D840		DIODE RD5.6ESB2 DIODE 1SS133T-77			<neon lamp=""></neon>				
D842 D845	8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77	NL501	1-519-108-99	LAMP, NEON				
D846 D847		DIODE 1SS133T-77 DIODE MTZJ-30A			<ic link=""></ic>				
D848 D849 D850 D852	8-719-923-86 8-719-110-22 8-719-109-89	DIODE MTZJ-T-77-15 DIODE RD11ESB2 DIODE RD5.6ESB2 DIODE MTZJ-T-77-15	PS601 PS602	<u>Д 1-533-597-21</u> <u>В 1-533-597-21</u>	LINK, IC LINK, IC				
D853		DIODE MTZJ-30A	0501	0 700 110 00	<transistor:< td=""><td></td><td></td><td></td><td></td></transistor:<>				
D854 D855 D856 D857	8-719-982-19 8-719-923-86	DIODE MTZJ-30A DIODE MTZJ-30A DIODE MTZJ-T-77-15 DIODE MTZJ-30A	Q501 Q502 Q503 Q504 Q505	8-729-024-05 8-729-119-76 8-729-823-81	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 1	SD2348(LB SA1175-HF SC4632LS-(SONY-1 E)	
D859 D860		DIODE MTZJ-T-77-15 DIODE MTZJ-30A	Q506	8-729-119-78	TRANSISTOR 2	SC2785-HF			
.55144.5 (1986) - 14	an di santa da da da da da da da da da da da da da	<fuse></fuse>	Q507 Q651 Q652 Q653	8-729-119-76 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HF SC2785-HF	E E		
F601.∷∴∆	1-532-748-11	FUSE, GLASS TUBE 6.3A/125V CLIP, FUSE; F601	Q654 Q655		TRANSISTOR 2 TRANSISTOR 2				
		<ferrite bead=""></ferrite>	Q656 Q657 Q658	8-729-119-78 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HF SA1175-HF	E E		
FB501 FB651 FB652	1-410-396-41	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q659		TRANSISTOR 2 TRANSISTOR 2				
FB653 FB654	1-410-396-41 1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q660 Q661 Q662 Q802	8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HF SC2785-HF	E E		
FB655 FB656 FB657	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH	Q803 Q804 Q805	8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HF	Е		
		<ic></ic>	Q809 Q810	8-729-119-78	TRANSISTOR 2 TRANSISTOR 2	SC2785-HF	Е		
IC501	8-759-133-90 8-729-041-12	IC uPC339C TRANSISTOR MX0841AB-F	2.88		<resistor></resistor>				
IC651 A IC652 IC653	1-810-051-11 8-759-012-67 8-759-231-53	TRANSISTOR MX0841 AB-F POWER MODULE DM-48 IC MC7905CT IC TA7805S	R501 R502	1-249-421-11 1-215-879-11		2.2K 47K	5% 5%	1/4W 1W	F
IC655 IC801 IC802	8-759-231-58 8-759-327-51 8-759-327-51	IC TA7812S IC PA0053B	R502 R503 R504 R506	1-247-843-11 1-249-419-11 1-215-444-00	CARBON CARBON	3.3K 1.5K 9.1K	5% 5% 1%	1/4W 1/4W 1/4W 1/4W	•



Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.

Cal for salety.

Replace only with part number specified.

REF. NO). PART NO.	DESCRIPTION			REMARK		REF. NO.	PART NO.	DESCRIPTION			EMARK	
R507	1-249-422-11	CADDON	2.7K	5%	1/4W		R583	1-249-428-11	CAPRON	8.2K	5%	1/4W	-
R508	1-260-337-11			5%	1/2W		R584	1-247-887-00		220K	5%	1/4W	
R509	1-249-437-11			5%	1/4W	_	R585		METAL OXIDE	39K	5%	3W	F
R510		METAL OXIDE		5% 50%	3W 3W	F	R586 R588	1-260-292-11		1 22K	5% 5%	1/2W 1/4W	
R511	1-215-919-11	METAL OXIDE	2.2K	5%	3W	r	KS88	1-247-863-91	CARBON	22K	3%	1/4 W	
R512		METAL OXIDE		5%	3W	F	R589	1-247-887-00		220K	5%	1/4W	
R513	1-249-424-11	CARBON	3.9K	5%	1/4W	SCOR	R591		METAL OXIDE		5%	3W	F
R514 R516	1-215-443-00	METAL		1%	1/4W 1/4W	338%			RESISTOR(SUR WIREWOUND			20W	
R517	1-215-449-00			1%	1/4W				FUSIBLE		10%		F
D #10	1 015 454 00		0077		1 //337		n <00	1 047 007 00	GARRON				
R518 R519	1-215-456-00 1-247-863-91			1% 5%	1/4W 1/4W		R609 R610	1-247-887-00 1-247-887-00		220K 220K	5% 5%	1/4W 1/4W	
R522	1-249-428-11			5%	1/4W		R611		METAL OXIDE		5%	1W	F
R523	1-249-437-11		47K	5%	1/4W		R612	1-247-887-00		220K	5%	1/4W	_
R524	1-247-863-91	CARBON	22K	5%	1/4W		R613	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R525	1-249-405-11	CARBON	100	5%	1/4W	F	R614	1-247-887-00	CARBON	220K	5%	1/4W	
R528	1-215-910-00	METAL OXIDE		5%	3W	F	R651	1-249-429-11		10 K	5%	1/4W	
R530	1-249-437-11			5%	1/4W		R652	1-249-425-11		4.7K	5%	1/4W	F
R531 R532	1-260-326-11 1-260-313-51			5% 5%	1/2W 1/2W		R653 R655	1-249-377-11 1-247-887-00		0.47 220 K	5% 5%	1/4W 1/4W	Г
1052	1 200 313 31	CHARDON		5 70	1,2 11		RODD	121, 60, 60	O'IIIDO'I	22011	2 /0	2,	
R533	1-214-912-00			1%	1/2W		R656	1-260-288-11		0.47	5%	1/2W	
R534 R535	1-215-479-00 1-247-887-00			1% 5%	1/4W 1/4W		R657 R658	1-249-429-11 1-249-417-11		10 K 1 K	5% 5%	1/4W 1/4W	
R536	1-249-377-11			5%	1/4W	F	R659	1-260-095-11		470	5%	1/2W	
R537	1-260-336-11	CARBON	4.7K	5%	1/2W		R660	1-249-413-11	CARBON	470	5%	1/4W	
R538	1-247-863-91	CARRON	22K	5%	1/4W		R661	1-249-417-11	CARRON	1 K	5%	1/4W	F
R539	1-249-377-11			5%		F	R662	1-249-425-11		4.7K	5%	1/4W	•
R540	1-249-379-11		0.68	5%	1/4W	F	R664	1-249-425-11		4.7K	5%	1/4W	
R541 R542	1-247-807-31	CARBON METAL OXIDE		5% 5%	1/4W 1W	F	R665 R667	1-247-807-31 1-249-417-11		100 1 K	5% 5%	1/4W 1/4W	
K342	1-213-602-11	METAL OAIDE			18S35/61S		K007	1-249-417-11	CARBON	I.K.	5 70	1/4 **	
				•		ĺ	R668	1-249-377-11		0.47	5%		F
R542	1-215-864-00	METAL OXIDE	150	5%	1W 6C36/53S3	F	R669 R672	1-249-429-11 1-249-421-11		10K 2.2K	5% 5%	1/4W 1/4W	
R544	1-215-862-11	METAL OXIDE	68	5% ⁽⁴	1W	F	R673	1-249-413-11		470	5%	1/4W	
					48S35/61S		R675	1-215-417-00	METAL	680	1%	1/4W	
R544	1-215-864-00	METAL OXIDE	150	5% (1	1W I6C36/53S3	F.	R676	1-216-360-00	METAL OXIDE	1	5%	2W	F
R545	1-249-377-11	CARBON	0.47	5% `		F	R677	1-247-807-31		100	5%	1/4W	1
R546	1-249-377-11			5%		F	R679	1-249-421-11	CARBON	2.2K	5%	1/4W	
R547	1-247-807-31	CARRON	100	5%	1/4W		R680 R681	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
R548	1-247-807-31			5%	1/4W		KUOI	1-249-417-11	CARBON	1 K	3 70	1/4 **	
R549	1-247-863-91	CARBON	22K	5%	1/4W		R682	1-249-417-11		1 K	5%	1/4W	
R550 R551	1-247-807-31			5% 5%	1/4W 1/4W		R683 R684	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
KJJI	1-249-437-11	CARBON	4/K .	5 70	1/4 **		R686	1-215-421-00		1 K	1%	1/4W	
R552	1-247-807-31	CARBON		5%	1/4W		R687	1-215-441-00		6.8K	1%	1/4W	
R553	1-247-881-00			5% 5%	1/4W 1/4W	F	D 600	1-215-481-00	METAI	330K	1%	1/4W	
R554 R556	1-249-405-11 1-260-123-11			5% 5%	1/4 W 1/2W	r	R688 R689	1-249-425-11		4.7K	5%	1/4W 1/4W	
R557	1-216-490-11	METAL OXIDE		5%	3W	F	R690	1-249-417-11		1K	5%	1/4W	
R558	1-216-400-11	METAL OXIDE	39K	5%	3W	F	R692 R693	1-249-425-11 1-249-429-11		4.7K 10K	5% 5%	1/4W 1/4W	
R559		METAL OXIDE		5%	3 W	F	K073	1-247-427-11	CARBON	IOIX	370	1/4 **	
R560	1-215-399-00			1%	1/4W	120020	R695	1-247-807-31		100	5%	1/4W	
■R561 R563	Δ 1-249-429-11		10 K	5%	1/4W 1/4W	φ17.g	R696 R697	1-249-417-11 1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
KJ0J	1-247-427-11	CARBON	TOIL .	5 70	27-444		R801	1-249-437-11		47K	5%	1/4W	
R564	1-260-131-11			5%	1/2W		R803	1-249-430-11	CARBON	12 K	5%	1/4W	
R565 R566	1-247-807-31 1-249-377-11			5% 5%	1/4W 1/4W	F	R804	1-249-429-11	CAPRON	10K	5%	1/4W	
R567	1-249-377-11			5%	1/4W	F	R805	1-247-807-31		100	5%	1/4W	
R568	1-247-903-00			5%	1/4W		R806	1-249-429-11		10 K	5%	1/4W	
R569	1_216_202_11	METAL OXIDE	1.8	5%	3W	F	R807 R808	1-247-807-31 1-249-429-11		100 10 K	5% 5%	1/4W 1/4W	
R570		METAL OXIDE		5% 5%	3 W	F	Novo	1-2-7-427-11	CUUDON	1017	5 /0	11-4 44	
R571	1-249-422-11	CARBON	2.7K	5%	1/4W		R809	1-249-425-11		4.7K	5%	1/4W	
R572	1-247-895-91			5% 5%	1/4W 1/4W		R810	1-247-807-31		100	5% 5%	1/4W 1/4W	
R573	1-249-430-11	CARBUN	12 K	5%	1/4 W		R811 R812	1-247-807-31 1-249-429-11		100 10K	5% 5%	1/4W 1/4W	
R574	1-249-429-11			5%	1/4W		R813	1-249-429-11		10K	5%	1/4W	
R577	1-249-422-11 1-247-895-91			5% 5%	1/4W 1/4W		DQ1/	1-247-807-31	CARRON	100	5%	1/4W	
R579 R580	1-247-895-91			5% 5%	1/4W 1/4W		R814 R815	1-247-807-31		100	5% 5%	1/4W 1/4W	
R581	1-249-429-11			5%	1/4W		R816	1-247-807-31	CARBON	100	5%	1/4W	
							R817	1-247-807-31	CARBON	100	5%	1/4W	



DEC NO	DADE NO.	DESCRIPTION			DELLARY	D777 110	D. D. D. D. V.O.	D. II. G. G. C. C. C. C. C. C. C. C. C. C. C. C. C.			
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R818	1-249-430-11		12K	5%	1/4W	R899 R901	1-247-815-91 1-249-439-11		220 68K	5% 5%	1/4W 1/4W
R820	1-249-429-11		10K	5%	1/4W	R902	1-249-438-11	CARBON	56K	5%	1/4W
R821 R822	1-249-428-11 1-249-417-11		8.2K 1K	5% 5%	1/4W 1/4W	R903	1-215-421-00	METAI	1 <i>V</i>	101	1 /450
R823	1-249-417-11		1K	5%	1/4W	R903	1-213-421-00		1K 2,2	1% 1%	1/4W 1/2W
R824	1-215-462-00		51K	1%	1/4W	R905	1-214-800-11		2.2	1%	1/2W
			_			R906	1-214-800-11		2.2	1%	1/2W
R825	1-249-441-11		100K	5%	1/4W	R907	1-247-815-91	CARBON	220	5%	1/4W
R826 R827	1-215-462-00 1-249-417-11		51K 1K	1% 5%	1/4W 1/4W	R908	1-247-815-91	CADDON	220	5%	1/4W
R828	1-249-426-11		5.6K	5%	1/4W	R909	1-215-421-00		1 K	1%	1/4W
R829	1-249-426-11		5.6K	5%	1/4W	R910	1-215-421-00		1 K	1%	1/4W
						R911	1-215-455-00		27K	1%	1/4W
R830	1-249-414-11		560	5%	1/4W	R912	1-215-469-00	METAL	100K	1%	1/4W
R831 R832	1-249-414-11 1-249-441-11		560 100 K	5% 5%	1/4W 1/4W	R913	1-215-455-00	METAI	27K	1%	1/4W
R833	1-249-417-11		1K	5%	1/4W	R914	1-215-455-00		27K	1%	1/4W
R834	1-249-441-11		100K	5%	1/4W	R915	1-215-455-00		27K	1%	1/4W
2005			400**	-~	4 /	R916	1-215-455-00		27K	1%	1/4W
R835 R836	1-249-441-11 1-247-807-31		100K 100	5%	1/4W	R917	1-215-455-00	METAL	27K	1%	1/4W
R837	1-249-441-11		100K	5% 5%	1/4W 1/4W	R918	1-215-455-00	METAI	27K	1%	1/4W
R838	1-249-421-11		2.2K	5%	1/4W	R919	1-249-435-11		33K	5%	1/4W
R841	1-247-815-91	CARBON	220	5%	1/4W	R920	1-214-800-11		2.2	1%	1/2W
2010	1 2 47 207 24		400	-~		R921	1-249-431-11		15K	5%	1/4W
R842 R843	1-247-807-31		100 100	5%	1/4W	R922	1-215-445-00	METAL	10K	1%	1/4W
R844	1-247-807-31 1-247-807-31		100	5% 5%	1/4W 1/4W	R923	1-249-425-11	CARRON	4.7K	5%	1/4W
R845	1-249-441-11		100K	5%	1/4W	R924	1-215-444-00		9.1K	1%	1/4W
R846	1-247-807-31	CARBON	100	5%	1/4W	R925	1-249-425-11	CARBON	4.7K	5%	1/4W
D047	1 015 460 00	> 477771 A T	10075	101	4 /4888	R926	1-249-408-11		180	5%	1/4W
R847 R850	1-215-469-00 1-215-469-00		100K 100K	1% 1%	1/4W 1/4W	R927	1-215-445-00	METAL	10K	1%	1/4W
R851	1-247-807-31		100 K	5%	1/4W 1/4W	R928	1-215-445-00	METAL.	10K	1%	1/4W
R852	1-247-807-31		100	5%	1/4W	R929	1-214-800-11		2.2	1%	1/2W
R853	1-247-887-00	CARBON	220K	5%	1/4W	R930	1-214-800-11		2.2	1%	1/2W
D054	1 240 420 11	CARRON	1077	E01	1 /4557	R931	1-215-445-00		10K	1%	1/4W
R854 R855	1-249-429-11 1-247-815-91		10 K 220	5% 5%	1/4W 1/4W	R933	1-215-453-00	METAL	22K	1%	1/4W
R856	1-247-807-31		100	5%	1/4W	R934	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-247-807-31		100	5%	1/4W	R935	1-249-429-11		10K	5%	1/4W
R858	1-215-455-00	METAL	27K	1%	1/4W	R936	1-249-429-11		10K	5%	1/4W
R859	1 215 455 00	METAT	שדני	101	1 //337	R937	1-249-435-11		33K	5%	1/4W
R860	1-215-455-00 1-215-455-00		27K 27K	1% 1%	1/4W 1/4W	R938	1-215-421-00	MEIAL	1 K	1%	1/4W
R861	1-215-455-00		27K	1%	1/4W	R939	1-259-878-11	CARBON	1.5M	5%	1/4W
R862	1-215-455-00		27K	1%	1/4W	R940	1-249-441-11		100K	5%	1/4W
R863	1-215-455-00	METAL	27K	1%	1/4W	R941	1-249-441-11		100K	5%	1/4W
R865	1-249-424-11	CARRON	3.9K	5%	1/4W	R942 R943	1-249-421-11 1-249-441-11		2.2K 100K	5% 5%	1/4W 1/4W
R867	1-215-461-00		47K	1%	1/4W	R	1-247-441-11	CARBON	TOOK	370	1/
R868	1-215-445-00		10 K	1%	1/4W	R944	1-215-421-00	METAL	1 K	1%	1/4W
R869	1-249-425-11		4.7K	5%	1/4W	R945	1-249-429-11		10K	5%	1/4W
R 871	1-249-417-11	CARBON	1 K	5%	1/4W	R946 R947	1-215-421-00 1-249-441-11		1K 100K	1% 5%	1/4W 1/4W
R872	1-249-425-11	CARBON	4.7K	5%	1/4W	R948	1-247-815-91		220	5%	1/4W 1/4W
R873	1-247-807-31	CARBON	100	5%	1/4W	10	1 2 11 010 71	0.2.201.		5,0	27 1 17
R874	1-249-429-11		10K	5%	1/4W	R949	1-247-807-31		100	5%	1/4W
R875 R879	1-249-441-11		100K	5%	1/4W	R950	1-247-807-31		100	5%	1/4W
K0/9	1-215-444-00	METAL	9.1K	1%	1/4W	R951 R952	1-247-807-31 1-247-807-31		100 100	5% 5%	1/4W 1/4W
R880	1-259-878-11	CARBON	1.5M	5%	1/4W	R953	1-247-863-91		22K	5%	1/4W
R881	1-249-408-11	CARBON	180	5%	1/4W					2	-,
R882	1-215-445-00		10K	1%	1/4W	R954	1-215-433-00		3.3K	1%	1/4W
R883 R884	1-215-445-00 1-215-445-00		10 K 10 K	1% 1%	1/4W 1/4W	R955 R956	1-215-433-00 1-249-429-11		3.3K	1%	1/4W
K004	1-213-443-00	MICIAL	10K	1 70	1/4 W	R950 R957	1-249-429-11		10K 2.2	5% 1%	1/4W 1/2W
R885	1-249-441-11	CARBON	100K	5%	1/4W	R958	1-214-800-11		2.2	1%	1/2W
R886	1-249-428-11	CARBON	8.2K	5%	1/4W						
R887	1-247-807-31		100	5%	1/4W	R959	1-215-433-00		3.3K	1%	1/4W
R888 R889	1-247-807-31 1-249-438-11		100 56K	5% 5%	1/4W 1/4W	R961 R962	1-249-425-11 1-214-800-11		4.7K 2.2	5% 1%	1/4W 1/2W
11007	x 2-77-7J0*11	CHEDON	JUA	5 10	4/7 **	R963	1-214-800-11		2.2	1% 1%	1/2W 1/2W
R890	1-249-441-11		100K	5%	1/4W	R964	1-215-433-00		3.3K	1%	1/4W
R891	1-249-429-11		10K	5%	1/4W	D0					
R892	1-215-445-00		10K	1%	1/4W	R965	1-215-433-00		3.3K	1%	1/4W
R895 R896	1-249-421-11 1-249-441-11		2.2K 100K	5% 5%	1/4W 1/4W	R966 R967	1-247-815-91 1-215-455-00		220 27K	5% 1%	1/4W 1/4W
1000		J. 1112-011	4004	5 70	-, . **	R968	1-215-455-00		27K	1%	1/4W
R897	1-247-807-31		100	5%	1/4W	R969	1-215-455-00		27K	1%	1/4W
R898	1-247-815-91	CARBON	220	5%	1/4W						



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							piece portant le nu	mero specifie.	specified.	· · · · · · · · · · · · · · · · · · ·	C:
REF. NO.	PART NO.	DESCRIPTION		RI	EMARK	REF. NO.	PART NO.	DESCRIPTION			EMARK
R970 R971 R972 R973 R974	1-215-455-00 1-215-455-00 1-215-455-00 1-214-800-11 1-215-463-00	METAL METAL METAL	27K 27K 27K 27K 2.2 56K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/2W 1/4W	CN701 CN702 CN703 CN704	1-695-915-11 *1-564-510-11 *1-564-512-11 *1-508-784-00	<connector> TAB (CONTACT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECT CONNECT PIN, CONNECT PLUG, CONNECT PLU</connector>) TOR 7P TOR 9P)R (5mm PI	TCH) 1P	•
R975 R976 R977 R978 R979	1-214-800-11 1-215-433-00 1-247-815-91 1-215-445-00 1-249-425-11	METAL CARBON METAL	2.2 3.3K 220 10K 4.7K	1% 1% 5% 1% 5%	1/2W 1/4W 1/4W 1/4W 1/4W			SOCKET, PICTU PLUG, CONNEC			
R980 R981 R982 R983 R984	1-247-815-91 1-247-815-91 1-247-895-91 1-247-815-91 1-215-444-00	CARBON CARBON CARBON	220 220 470K 220 9.1K	5% 5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	D701 D702 D703 D704 D705	8-719-991-33 8-719-991-33 8-719-991-33	<diode 1ss133t<br="">DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE MTZJ-T-</diode>	-77 -77 -77		
R985 R987 R988 R989 R990	1-215-445-00 1-249-408-11 1-215-445-00 1-249-425-11 1-249-429-11	CARBON METAL CARBON	10K 180 10K 4.7K 10K	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	D706 D708 D709 D710	8-719-923-86 8-719-110-17 8-719-109-89	DIODE MTZJ-T- DIODE RD10ES DIODE RD5.6ES DIODE 1SS133T	77-15 B2 B2		
R991 R992 R993 R994 R995	1-249-429-11 1-259-878-11 1-249-425-11 1-249-425-11 1-249-413-11	CARBON CARBON CARBON	10K 1.5M 4.7K 4.7K 470	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	IC701	8-759-434-39	<ic></ic>			
R996 R997 R998 R999	1-247-815-91 1-215-445-00 1-249-434-11 1-249-434-11	METAL CARBON	220 10K 27K 27K	5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W	L701	1-408-429-00	<coil> INDUCTOR 470</coil>	UH		
		<relay></relay>				NL701	1-519-108-99	<neon lamp=""></neon>			
								<transistor:< td=""><td>•</td><td></td><td></td></transistor:<>	•		
T502 T503	∆ 1-431-211-11 ∧ 1-431-212-11	<transforme TRANSFORME TRANSFORME TRANSFORME TRANSFORME</transforme 	t HORIZO E FERRITE E HORIZO	E (PMT) NTAL LI YBACK	NEAR	Q701 Q702		TRANSISTOR 2 TRANSISTOR 2 <resistor></resistor>			
T604	A 1-429-992-13	TRANSFORMEI TRANSFORMEI TRANSFORMEI	R. CONVE	RTER (PF	007//X4A4) (T) T)	R701 R702 R703 R704 R705	1-219-743-11 1-215-425-00 1-215-437-00 1-260-132-11 1-215-424-00	METAL CARBON	RGE RESIS' 1.5K 4.7K 560K 1.3K	ΓΑΝΤ) 1 1% 1% 5% 1%	1/4W 1/4W 1/2W 1/4W
TH801	1-808-269-11	<thermistor td="" thermistor<=""><td>></td><td></td><td></td><td>R706 R707 R708 R709 R710</td><td>1-215-437-00 1-249-435-11 1-215-428-00 1-260-101-11 1-215-903-11</td><td>CARBON METAL</td><td>4.7K 33K 2K 1.5K 68K</td><td>1% 5% 1% 5% 5%</td><td>1/4W 1/4W 1/4W 1/2W 2W F</td></thermistor>	>			R706 R707 R708 R709 R710	1-215-437-00 1-249-435-11 1-215-428-00 1-260-101-11 1-215-903-11	CARBON METAL	4.7K 33K 2K 1.5K 68K	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/2W 2W F
*****		**************************************	OMPLETE		*****	R711 R712 R713 R714 R715	1-249-435-11 1-247-807-31 1-249-437-11 1-260-099-11 1-260-133-11	CARBON CARBON CARBON	33K 100 47K 1K 680K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/2W 1/2W
C702		<capacitor></capacitor>	12PF	5%	50V	R717 R718 R719	1-249-417-11 1-247-807-31 1-260-087-11	CARBON	1K 100 100	5% 5% 5%	1/4W 1/4W 1/2W
C703 C704 C705 C706	1-104-664-11 1-126-964-1 1-161-754-00 1-126-934-1	ELECT CERAMIC	47MF 10MF 0.001MF 220MF	20% 20% 10% 20%	25V 50V 2KV 16V	SG701	1-510- <i>422-</i> 11	<spark gap=""></spark>			
C707 C708 C709 C712	1-102-050-0	CERAMIC CERAMIC CERAMIC CERAMIC ELECT	5PF 0.01MF 330PF 22MF	0.25PF 10% 20%	500V 500V 2KV 250V	SG702	1-519-422-11	GAP, SPARK			
						******	*******	*******	********	*****	******

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specilied			ant le numero				•				
REF. NO.	PART NO.	DESCRIPTION		<u> </u>	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1331-668-A	CG BOARD, CO ************************************				C763 C765 C766 C767	1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	CERAMIC CERAMIC	0.001MF 0.01MF 330PF 22MF	10% 10% 20%	2KV 500V 2KV 250V
0722	1 100 040 00		IADE	E OI	5037			-CONNECTOR			
C732 C733 C735 C736 C737	1-102-949-00 1-161-754-00 1-102-050-00 1-162-115-00 1-107-662-11	CERAMIC CERAMIC CERAMIC	12PF 0.001MF 0.01MF 330PF 22MF	5% 10% 10% 20%	50V 2KV 500V 2KV 250V	CN763	* 1-564-507-11 * 1-508-784-00	CONNECTOR> TAB (CONTACT PLUG, CONNECTOR) PIN, CONNECTOR SOCKET PICTURE	") TOR 4P OR (5mm P		
C743	1-247-807-31	CARBON	100	5%	1/4W			PLUG, CONNEC		* 1994	CA198678.621118
		<connector></connector>				CN766	* 1-564-513-11	PLUG, CONNEC	TOR 10P		
CN731	1-695-915-11	TAB (CONTACT	")					<diode></diode>			
	*1-564-507-11 *1-508-784-00 \$\Delta\$1-251-182-11	PLUG, CONNEC PLUG, CONNEC PIN, CONNECTO SOCKET, PICTU	TOR 4P OR (5mm P RE TUBE	ITCH) II	P	D761 D762 D763 D764	8-719-923-86 8-719-110-17	DIODE 1SS133T DIODE MTZJ-T- DIODE RD10ESI DIODE MTZJ-T-	77-15 32		
		PLUG, CONNEC PLUG, CONNEC						<ic></ic>			
		<diode></diode>				IC761	8-759-434-39	IC TDA6106Q			
D731 D732	8-719-991-33	DIODE 1SS133T	-77					<coil></coil>			
D733	8-719-110-17	DIODE RD10ESI	32			L761	1-408-429-00	INDUCTOR 470	JH		
		<ic></ic>						<neon lamp=""></neon>			
IC731	8-759-434-39	IC TDA6106Q				NL761	1-519-108-99	LAMP, NEON			
		<coil></coil>						<resistor></resistor>			
L731	1-408-429-00	INDUCTOR 4700	JH			R761		RESISTOR (SUR			
		<neon lamp=""></neon>				R762 R763	1-260-132-11 1-215-420-00	METAL	560K 910	5% 1%	1/2W 1/4W
NL731	1-519-108-99	LAMP, NEON				R764 R765	1-249-426-11 1-215-430-00		5.6K 2.4K	5% 1%	1/4W 1/4W
		<resistor></resistor>				R766 R767		METAL OXIDE		5% 5%	1/2W 2W F
R731 R732	1-219-743-11 1-260-132-11	RESISTOR (SUR CARBON		ΓΑΝΤ) 1 5%	00 1/2W	R768 R769 R770	1-260-133-11 1-260-099-11 1-247-807-31	CARBON	680K 1K 100	5% 5% 5%	1/2W 1/2W 1/4W
R733 R735 R736	1-215-421-00 1-249-441-11 1-215-430-00	METAL CARBON	1K 100K 2.4K	1% 5% 1%	1/4W 1/4W 1/4W	R771	1-260-087-11		100	5%	1/2W
R737	1-260-101-11	CARBON	1.5K	5%	1/2W			<spark gap=""></spark>			
R738 R739 R740 R741	1-215-903-11 1-260-133-11 1-260-099-11 1-215-435-00	CARBON	68K 680K 1K 3.9K	5% 5% 5% 1%	2W F 1/2W 1/2W 1/4W	SG761 SG762		GAP, SPARK GAP, SPARK			
R742	1-247-885-00	CARBON	180K	5%	1/4W	******	******	******	*****	*****	*****
		<spark gap=""></spark>					* A-1372-288-A	HA BOARD, C		*	
SG731 SG732		GAP, SPARK GAP, SPARK								(excep	ot KP-46C36)
							* A-1372-304-A	HA BOARD, C			5C36 only)
******	******	******	******	******	*****			-CADACITOD-			
	* A-1331-669-A	CB BOARD, CO		*		C1301	1-137-399-11	<capacitor> FILM</capacitor>	0.1 MF	5%	50V
		.a.p. area				C1302	1-126-959-11	ELECT	0.47MF	20%	(46C36 only) 50V
6743	1 100 040 00	<capacitor></capacitor>	LODE	E CI	501/	C1304	1-126-964-11		10MF	20%	(46C36 only) 50V
C762	1-102-949-00	CERAMIC	12PF	5%	50V	C1305	1-137-399-11	FILM	0.1MF	5%	50V (46C36 only)



REF. NO.	PART NO.	DESCRIPTION			REMARK I	REF. NO.	PART NO.	DESCRIPTION		F	REMARK		
C1306	1-126-964-11	ELECT	10MF	20%	50V	************	* A-1390-682-A	ZR BOARD, CO		-			
G140F		T1 17 C170	102.00	200	(46C36 only)			******	******				
C1307	1-126-964-11	ELECT	10MF	20%	50V (46C36 only)			<connector></connector>	•				
		CONNECTOR				CN1401	*1-564-510-11	PLUG, CONNEC	TOR 7P				
CN11201	1 564 500 11	<connector> PLUG, CONNEC</connector>				CN1404	*1-564-507-11	PLUG, CONNEC PIN, CONNECTO	TOR 4P	ADD) 40	•		
CN1302	* 1-564-526-11	PLUG, CONNEC PLUG, CONNEC	TOR 11P (CN1405	* 1-300-009-11	FIN, CONNECTO	JR (PC BU	AKD) 4F			
CN1504	** 1-304-310-11	PLUG, CONNEC	.10K 3F (4	0030 (лиу)			<connector></connector>					
		<diode></diode>				DY1401	1-451-454-11	DEFLECTION Y	OKE				
D1301 D1302		DIODE RD10ES						<resistor></resistor>					
D1303 D1304	8-719-110-17	DIODE RD10ES DIODE SLR-325	B2 (46C36)			R1401	1-249-414-11		560	5%	1/4W		
D1305		DIODE SLR-325				R1402 R1415	1-249-414-11		560	5% 5%	1/4W	F	
D1306 D1307		DIODE RD10ES				R1418		METAL OXIDE		5%	3W	F	
D1308		DIODE RD10ES											
		<ic></ic>				******	*******	******	******	******	******	*	
IC1301	8-741-780-51	IC SBX1780-51				* A-1390-683-A	ZG BOARD, C						
							4-382-854-11	SCREW (M3X10), P, SW (+)			
	<jack></jack>					GAPA GYTOD							
J1301	1-770-361-11	TERMINAL BLO	OCK, S (460	C36 or	ıly)	<pre><capacitor> C1433 1-104-999-11 MYLAR</capacitor></pre>							
		<resistor></resistor>				C1433 C1434 C1435	1-104-999-11 1-106-383-00 1-107-667-11	MYLAR	0.1MF 0.047MF 2.2MF	10% 10% 20%	200V 200V 160V		
R1301	1-249-425-11	CARBON	4.7K	5%	1/4W (46C36 only)	C1436	1-107-067-11 1-137-364-11 1-137-364-11	FILM	0.001MF 0.001MF	5% 5%	50V 50V		
R1302 R1303	1-249-416-11 1-249-417-11		820 1K	5% 5%	1/4W 1/4W	C1437	1-106-383-00		0.001MF	10%	200V		
R1304 R1305	1-249-425-11 1-247-815-91	CARBON	4.7K 220	5% 5%	1/4W 1/4W	C1439 C1440	1-161-830-00 1-126-933-11	CERAMIC	0.0047MF 100MF		500V 16V		
R1306	1-247-815-91		220	5%	1/4W	C1441 C1443	1-102-074-00 1-126-935-11	CERAMIC	0.001MF 470MF	10% 20%	50V 16V		
R1307 R1308	1-249-420-11 1-247-895-91	CARBON	1.8K 470K	5% 5%	1/4W 1/4W	C1444	1-107-639-11	ELECT	47MF	20%	160V		
R1309	1-247-895-91		470K	5%	(46C36 only) 1/4W	C1446	1-126-933-11 1-126-933-11		100MF 100MF	20% 20%	16V 16V		
R1310	1-249-429-11	CARBON	10K	5%	(46C36 only) 1/4W								
R1311	1-247-804-11	CARBON	75	5%	1/4W			<connector></connector>	•				
R1312	1-247-804-11	CARBON	75	5%	1/4W	CN1432	*1-564-510-11	PLUG, CONNEC	TOR 7P				
R1314	1-247-807-31		100	5%	(46C36 only) 1/4W	CN1434	*1-580-689-11	PLUG, CONNECTO	OR (PC BO	ARD) 4F	•		
R1315	1-247-804-11	CARBON	75	5%	1/4W (46C36 only)			PLUG, CONNEC					
		an iman						PLUG, CONNEC					
01201	1 572 100 11	<switch></switch>					∠DIODE\						
S1301 S1302 S1303	1-572-198-11	SWITCH, KEYB SWITCH, KEYB	OARD			D1431	9.710.110.99	<diode> DIODE RD39ES</diode>	D 2				
S1304 S1305	1-572-198-11	SWITCH, KEYB SWITCH, KEYB SWITCH, KEYB	OARD			D1431 D1432 D1433	8-719-110-88	DIODE RD39ES DIODE 1SS133T	B2				
S1305		SWITCH, KEYB				D1433	0-717-771-33	PIODE 1001001	-11				
S1307		SWITCH, KEYB						<connector></connector>	•				
						DY1431	1-451-454-11	DEFLECTION Y	OKE				
*****	******	******	******	****	********			<coil></coil>					
						L1431	1-410-478-11	INDUCTOR 47U	JΗ				
						L1432		INDUCTOR 47U					

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specified.	000.01300.1300.000 0.000.400.0	piece pon	iant le nume	но ѕреспи	3. % 					
REF. NO.	PART NO.	DESCRIPTION			REMARI	ζ.	REF. NO.	PART NO.	DESCRIPTION	REMARK
	***************************************	<transistor:< td=""><td>></td><td></td><td></td><td>-</td><td></td><td></td><td>MISCELLANEOUS</td><td>*************</td></transistor:<>	>			-			MISCELLANEOUS	*************

Q1431		TRANSISTOR 2								
Q1432		TRANSISTOR 2					ı	A 1-223-925-12	RESISTOR ASSY (HIGH-V	OLTAGE)
Q1433		TRANSISTOR 2					1	∆ 1-451-454-11	DEFLECTION YOKE (R) (C DEFLECTION YOKE (B)	J)
Q1434		TRANSISTOR 2						<u> </u>	DEFLECTION YOKE (B)	
Q1435	8-729-119-78	TRANSISTOR 2	SC2785-H	FE			1		MAGNET ASSY, 4 POLE	
	0 800 410 80			-			İ	1-505-378-11	SPEAKER (10CM)	
Q1436	8-729-119-78	TRANSISTOR 2	SC2785-H	IFE					CARLERS	
								1-556-945-21		
		A PRICE OR						* 1-557-056-41		Controller and the Section 1997
		<resistor></resistor>						₩ 1-10 2- 921-11	CORD, POWER(WITH NO	
R1431	1-249-414-11	CAPPON	560	5%	1/4W			0 500 A1A 00	ANTENNA SWITCH AS-2F	(7.0A/125V
	1-249-414-11		560	5%	1/4 W				BLOCK ASSY, HIGH-VOL	
R1432 R1433	1-249-377-11		0.47	5%	1/4W	F		T 0.320.233.11	BRACK ASSI, HIGH-YOL	I ANDE
R1435		METAL OXIDE		5%	3W	F	99922323000	A 9 722 /05/05	PICTURE TUBE 07MAC2(I	NAME OF THE PARTY OF
R1435		METAL OXIDE		5%	3W	F	•	m 0-133 -1 33-03	FRICKLIGHE GIMACE	(GA) (46C3)
X1430	1-210-475-11	METAL OXIDE	120	3 70	3 **	1.		A 9 733,406.05	PICTURE TUBE 07MAC20	
R1437	1-249-414-11	CADRON	560	5%	1/4W		•	ID 0-130 -4 30-03	TRIORE TOBE OF MIRCE	(GA) (46C3)
R1438	1-249-432-11		18 K	5%	1/4W			A 9.733.407.05	PICTURE TUBE 07MAC3(I	
R1439	1-249-432-11		18K	5%	1/4W			T 0 133 481 02		GA) (48S35/53S33
R1440	1-249-414-11		560	5%	1/4W	F	ļ .	A 8_733_408_04	PICTURE TUBE 07MAC3(I	
R1441	1-249-417-11		1 K	5%	1/4W	•				GA) (48535/53S3:
	1 2 1 1 1 1 1 1 1	O. IICD O		2.0	•		ļ.,	A 8-733-507-05	PICTURE TUBE 07MAC4(I	
1442	1-247-815-91	CARBON	220	5%	1/4W				•	
R1443	1-249-377-11		0.47	5%	1/4W	F		A 8-733-508-05	PICTURE TUBE 07MAC4(I	85 (61835)
R1445	1-249-403-11		68	5%	1/4W			∆8-733-518-05	PICTURE TUBE 07MAC2(0	GOCLENS)
R1448	1-249-416-11		820	5%	1/4W		I	······································	**************************************	
R1449	1-249-403-11		68	5%	1/4W					
							******	*****	*******	******
R1450	1-249-417-11	CARBON	1K	5%	1/4W		1			
R1451	1-249-411-11	CARBON	330	5%	1/4W		Ì	ACCESSORI	ES AND PACKING MATERI	IALS
R1452	1-249-417-11	CARBON	1 K	5%	1/4W		İ	******	*********	*****
R1453	1-249-401-11	CARBON	47	5%	1/4W					
R1454	1-260-311-11	CARBON	39	5%	1/2W		1		MANUAL, INSTRUCTION	
							1		BAG, POLYETHYLENE	
R1455	1-249-384-11		1.8	5%	1/4W	F			MANUAL, INSTRUCTION	
R1456		METAL OXIDE		5%	3W	F	1		MANUAL, INSTRUCTION	(46C36)
R1457	1-249-417-11		1K	5%	1/4W	F		* 4-037-674-01	BOARD, TOP (48S35)	
R1458	1-249-384-11		1.8	5%	1/4W	F				
R1459	1-249-400-11	CARBON	39	5%	1/4W	F			BAG, PROTECTION (excep	
				-~			1		BAG, POLYETHYLENE (6	1835)
R1461	1-249-414-11		560	5%	1/4W		İ	* 4-042-463-01	SHEET, PROTECTION	
R1462	1-249-414-11		560	5%	1/4W		1		PLATE, TOP (61S35)	
R1463	1-249-399-11		33	5%	1/4W			* 4-047-774-01	PLATE, TOP (46C36/53S35)
R1464	1-249-417-11		1K	5%	1/4W		1			
R1465	1-215-908-00	METAL OXIDE	33	5%	3W	F	1		INDIVIDUAL CARTON (53	
			100			_			CUSHION (UPPER) (ASSY	
R1466	1-216-475-11	METAL OXIDE	120	5%	3W	F	-	* 4-056-293-01	CUSHION (LOWER) (ASSY	r) (53835)
									PLATE, BOTTOM (53S35)	
				****				* 4-030-300 - 01	TRAY (53S35)	
~~~~~	****	****	*****	~~~~~	*****		]	* 4 057 640 01	CHOLHON (LIDDED) (ACCV	\ (61025)
									CUSHION (UPPER) (ASSY	
							1		CUSHION (LOWER) (ASS)	
									INDIVIDUAL CARTON (6) TRAY (61S35)	(6,53)
							1		BOARD, BOTTOM (61S35)	•
								4-037-030-01	BOAKD, BUI 10M (01833)	1
								* 4-057-651-01	CUSHION (UPPER) (ASSY	\ (48535)
							İ		CUSHION (UPPER) (ASS)	
							į		INDIVIDUAL CARTON (48	
							İ		TRAY (48S35)	3033)
							1		BOARD, BOTTOM (48S35)	•
							1	+ 057-057-01	201112, 2011011 (4000)	•
							1			

## REMOTE COMMANDER

1-473-749-31 REMOTE COMMANDER (RM-Y136A) 4-978-977-01 POCKET, COVER (FOR RM-Y136A)